

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

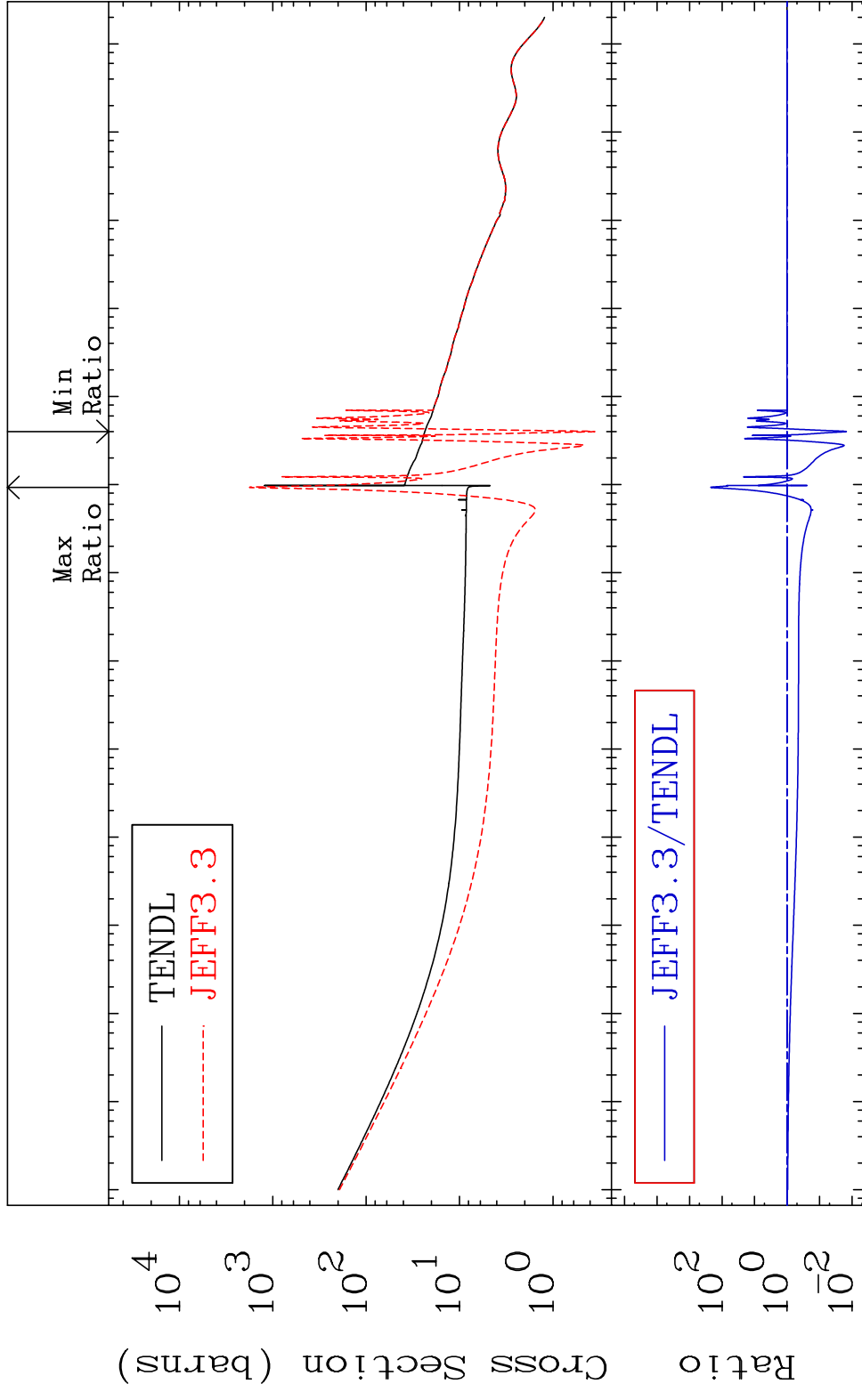
Press Mouse Button to Start

MAT 2937

29-Cu-67

Total

Cross Section -98.49 To 9999. %



10<sup>4</sup>  
10<sup>3</sup>  
10<sup>2</sup>  
10<sup>1</sup>  
10<sup>0</sup>  
10<sup>-2</sup>  
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

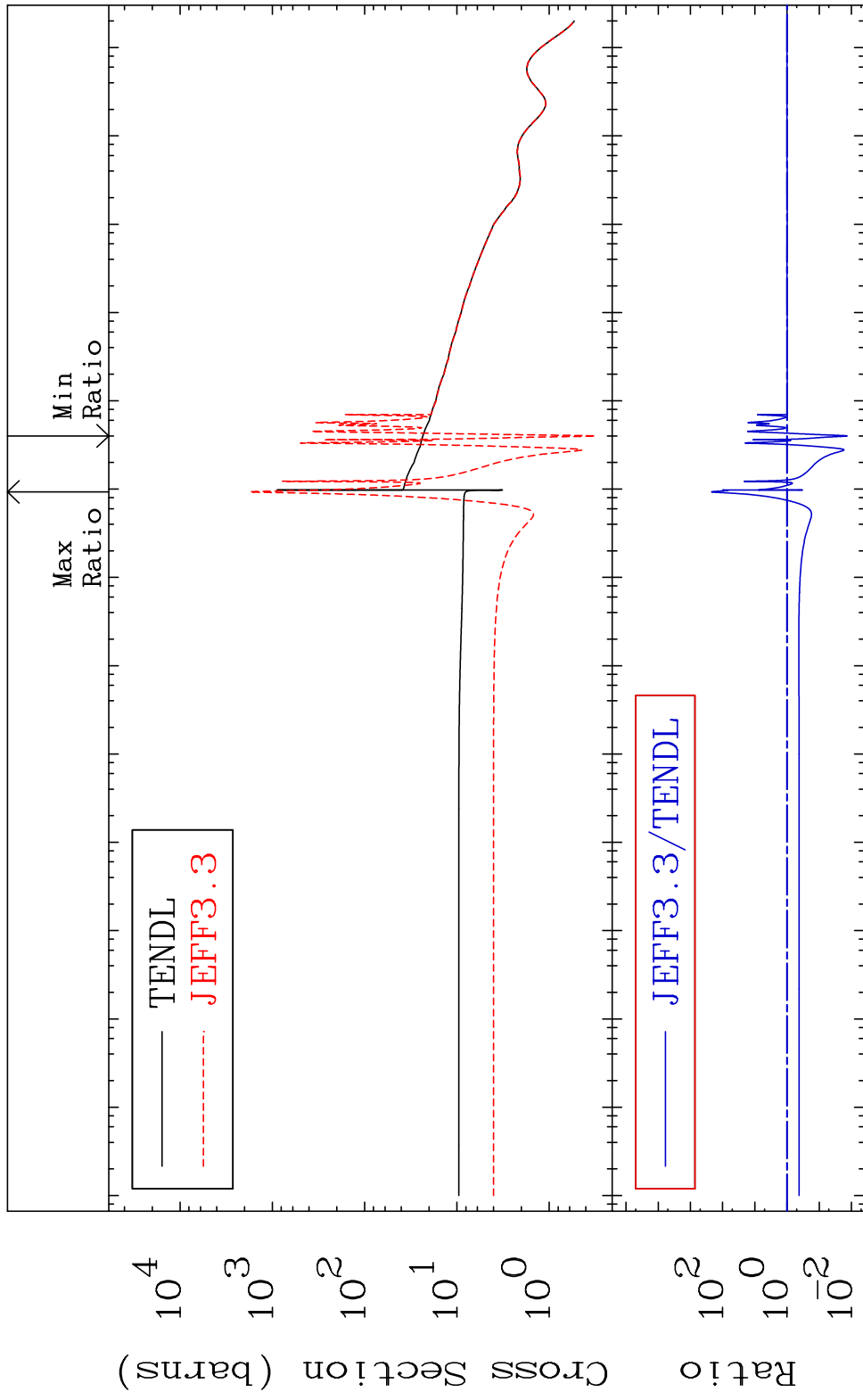
Ratio  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-2</sup>  
Incident Energy (eV) 29-Cu-67

MAT 2937

Elastic

29-Cu-67

Cross Section -98.66 To 9999. %



2

Incident Energy (eV)

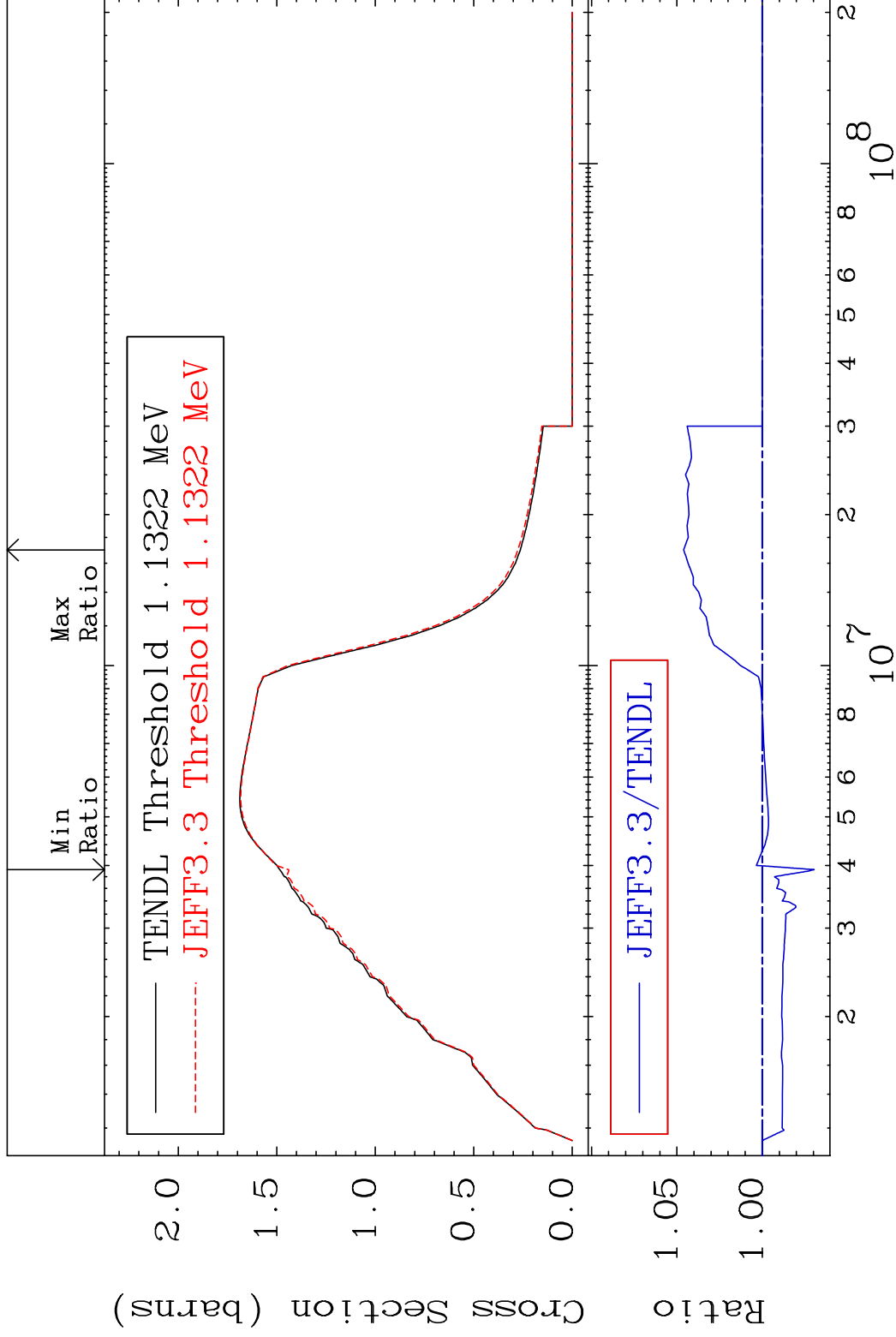
29-Cu-67

MAT 2937

Inelastic

29-Cu-67

Cross Section -3.036 To 4.605 %



3

Incident Energy (eV)

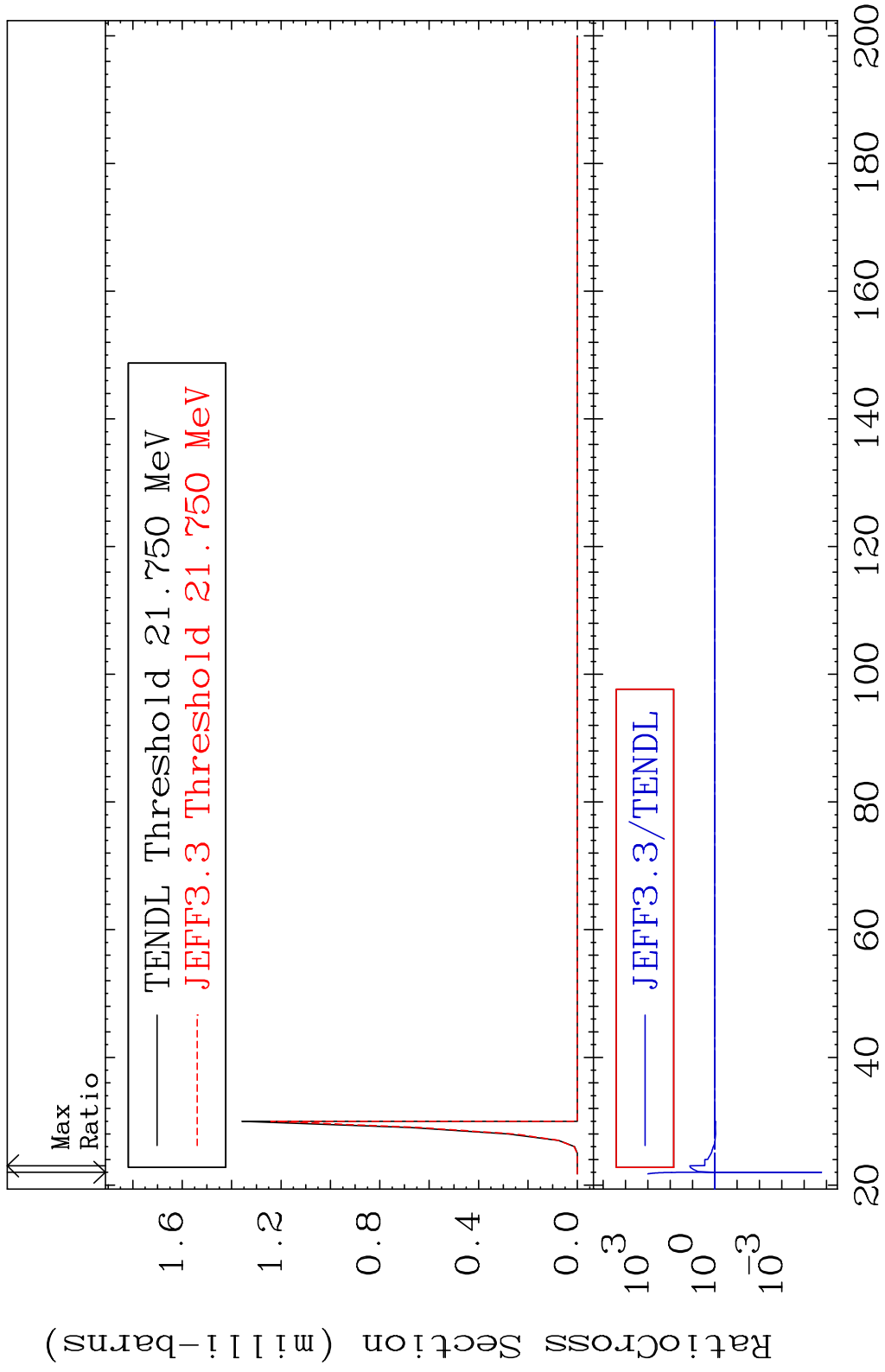
29-Cu-67

MAT 2937

(n,2n) d

29-Cu-67

Cross Section -100.0 To 1220. %

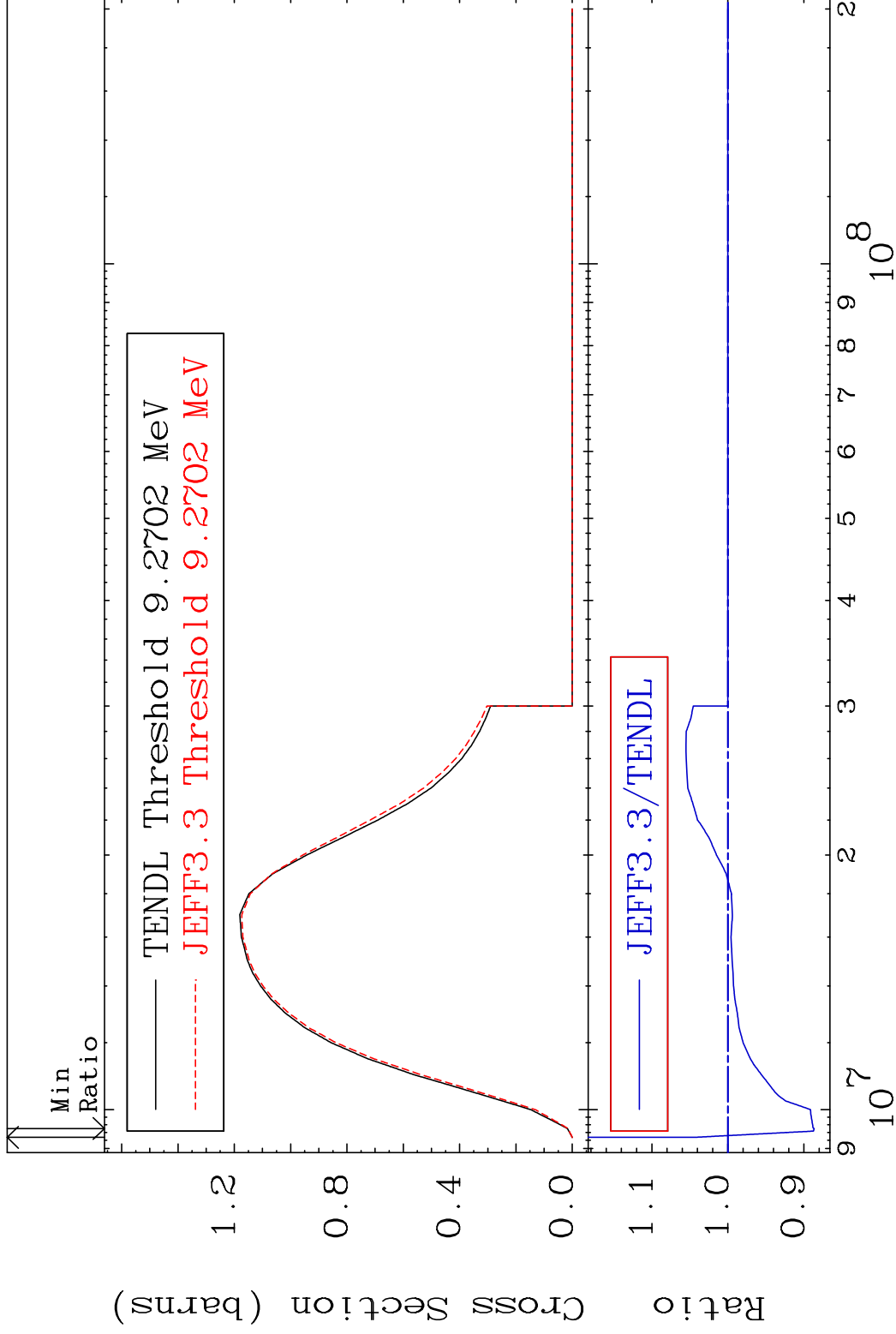


MAT 2937

(n,2n)

29-Cu-67

Cross Section -11.34 To 5.814 %



5

Incident Energy (eV)

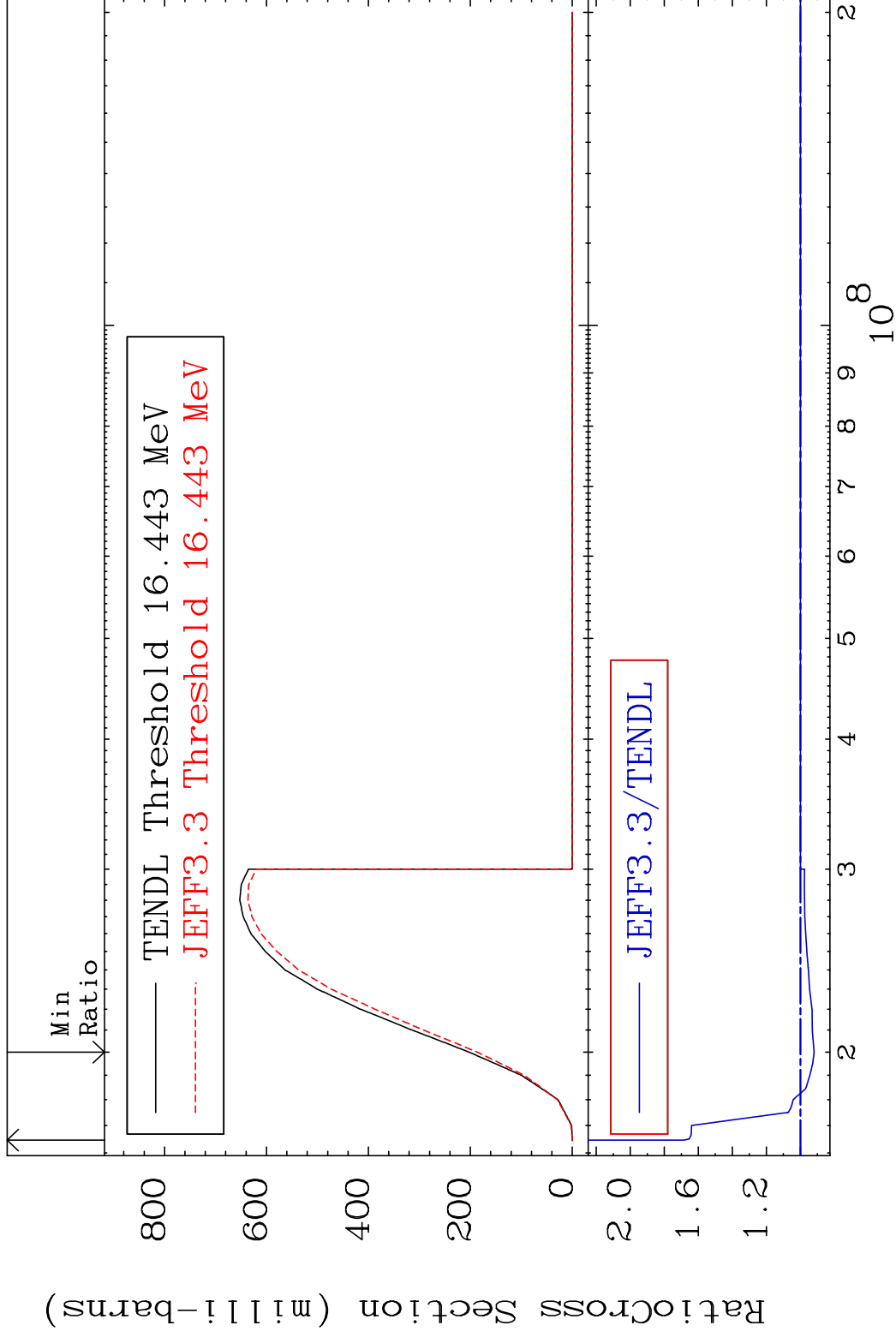
29-Cu-67

MAT 2937

(n,3n)

29-Cu-67

Cross Section -8.066 To 68.62 %



6

Incident Energy (eV)

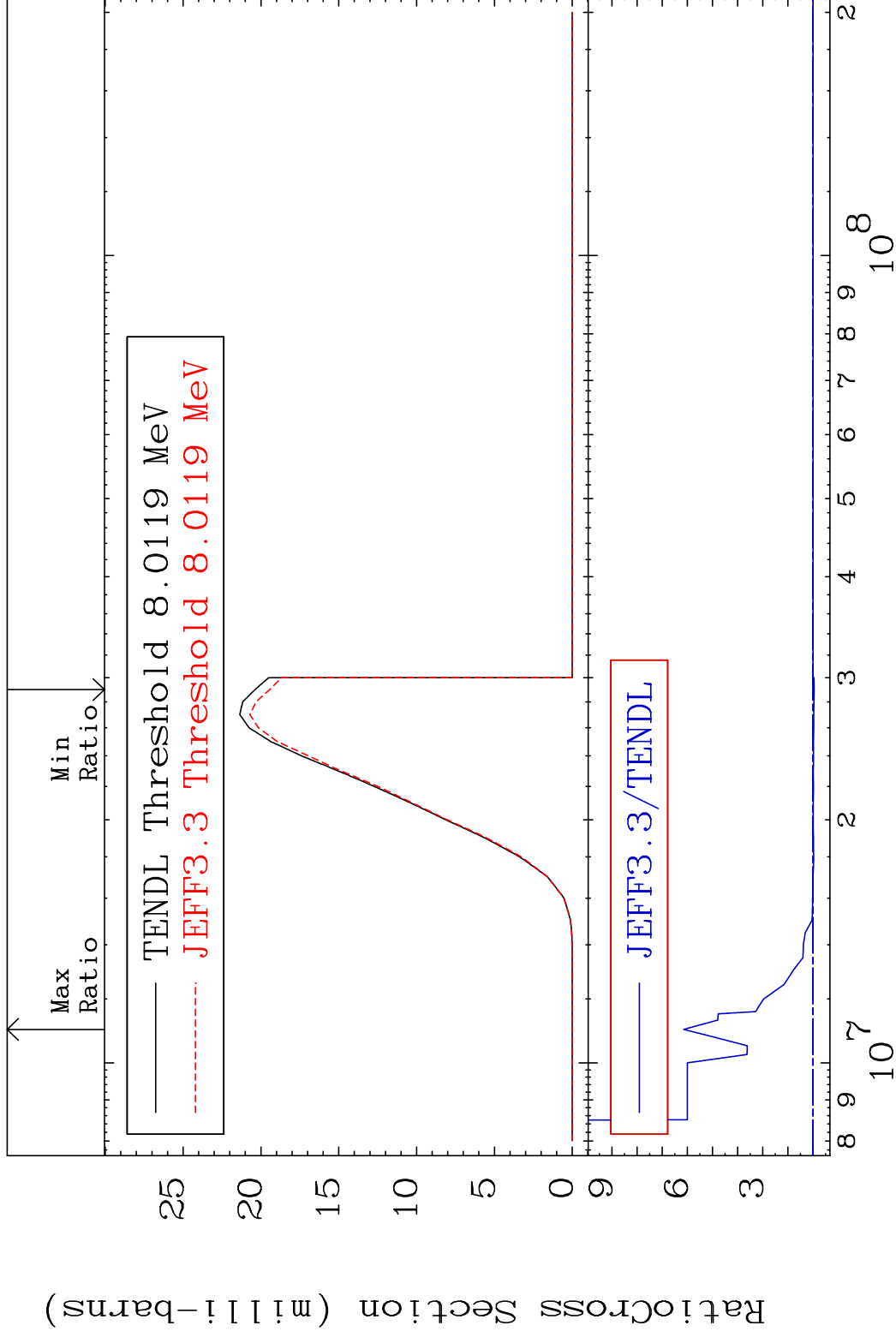
29-Cu-67

MAT 2937

(n, n')  $\alpha$

29-Cu-67

Cross Section -4.637 To 514.7 %



7

Incident Energy (eV)

29-Cu-67

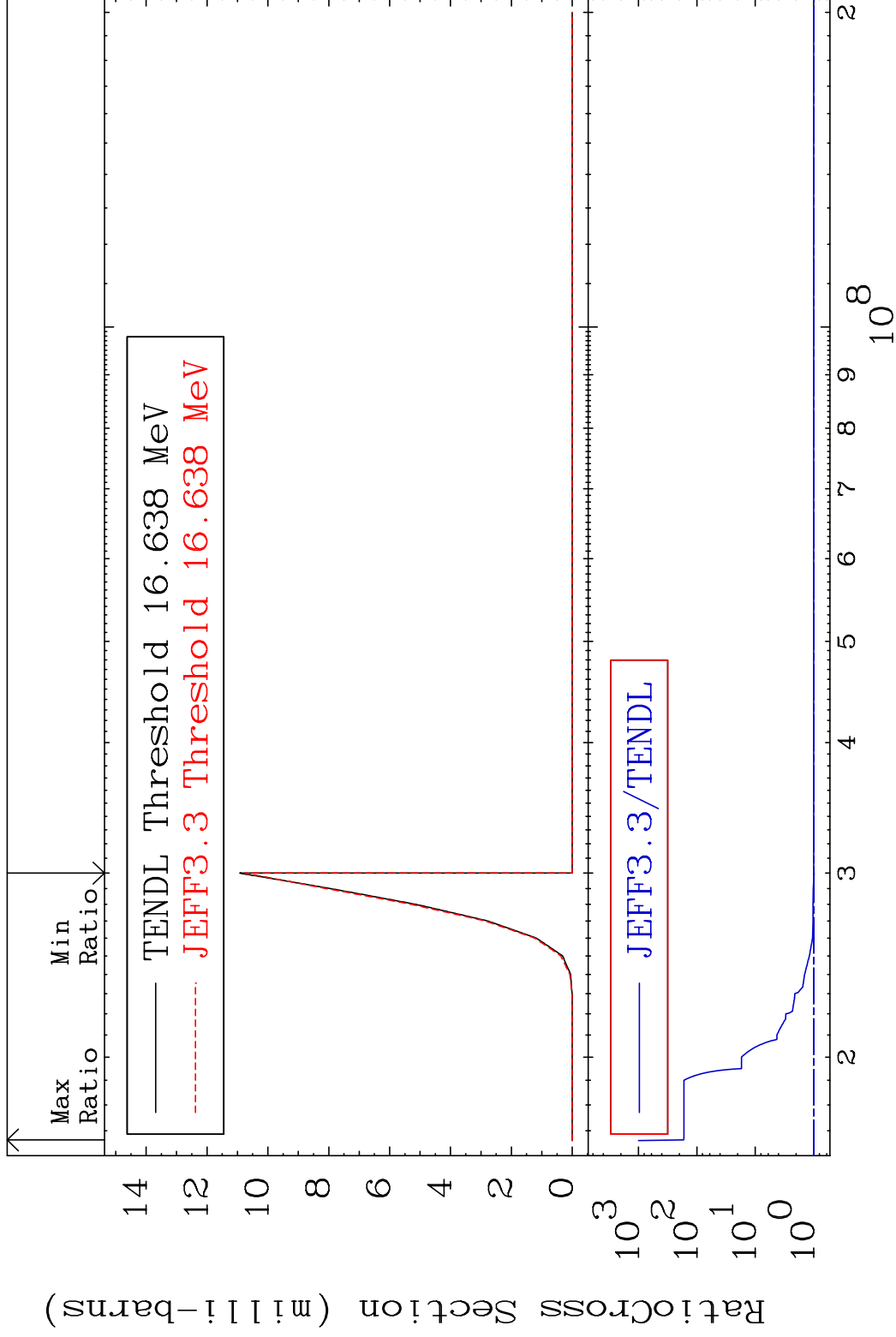


MAT 2937

(n,2n)  $\alpha$

29-Cu-67

Cross Section -1.577 To 9999. %

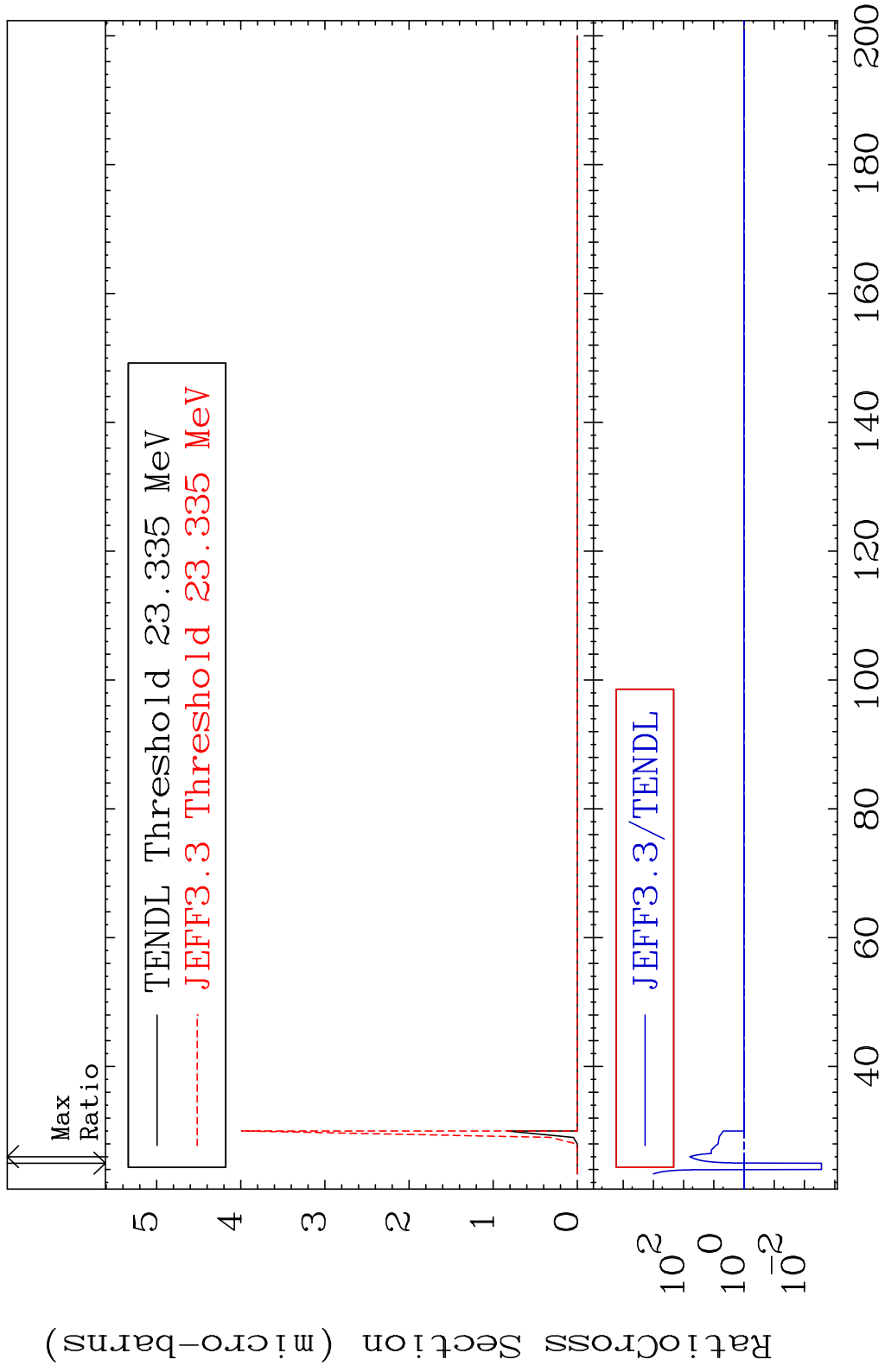


MAT 2937

(n,3n)  $\alpha$

29-Cu-67

Cross Section -99.72 To 6138. %



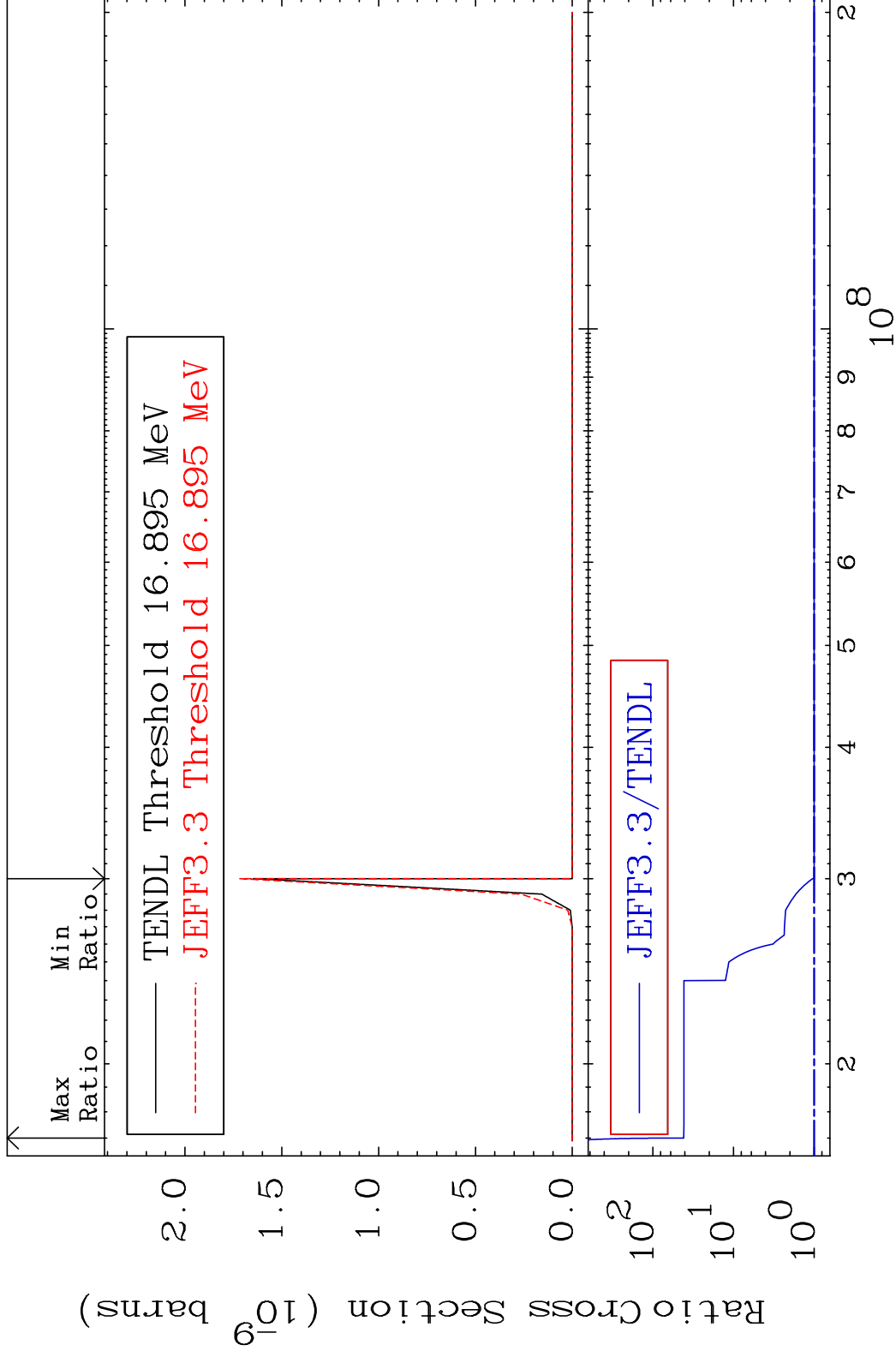


MAT 2937

(n, n') 2 $\alpha$

29-Cu-67

Cross Section 0.000 To 4044. %

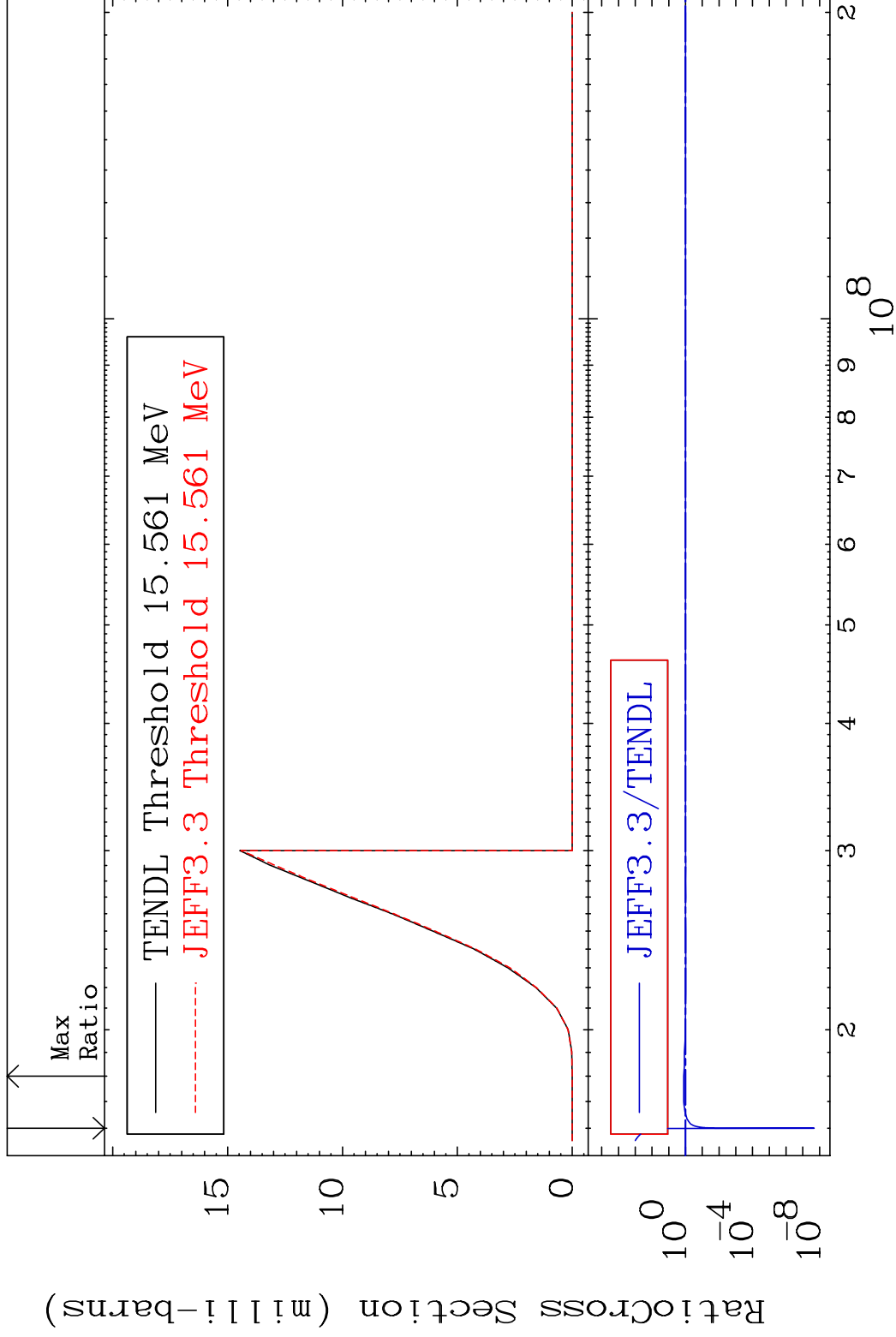


MAT 2937

(n, n') d

29-Cu-67

Cross Section -100.0 To 29.38 %



12

Incident Energy (eV)

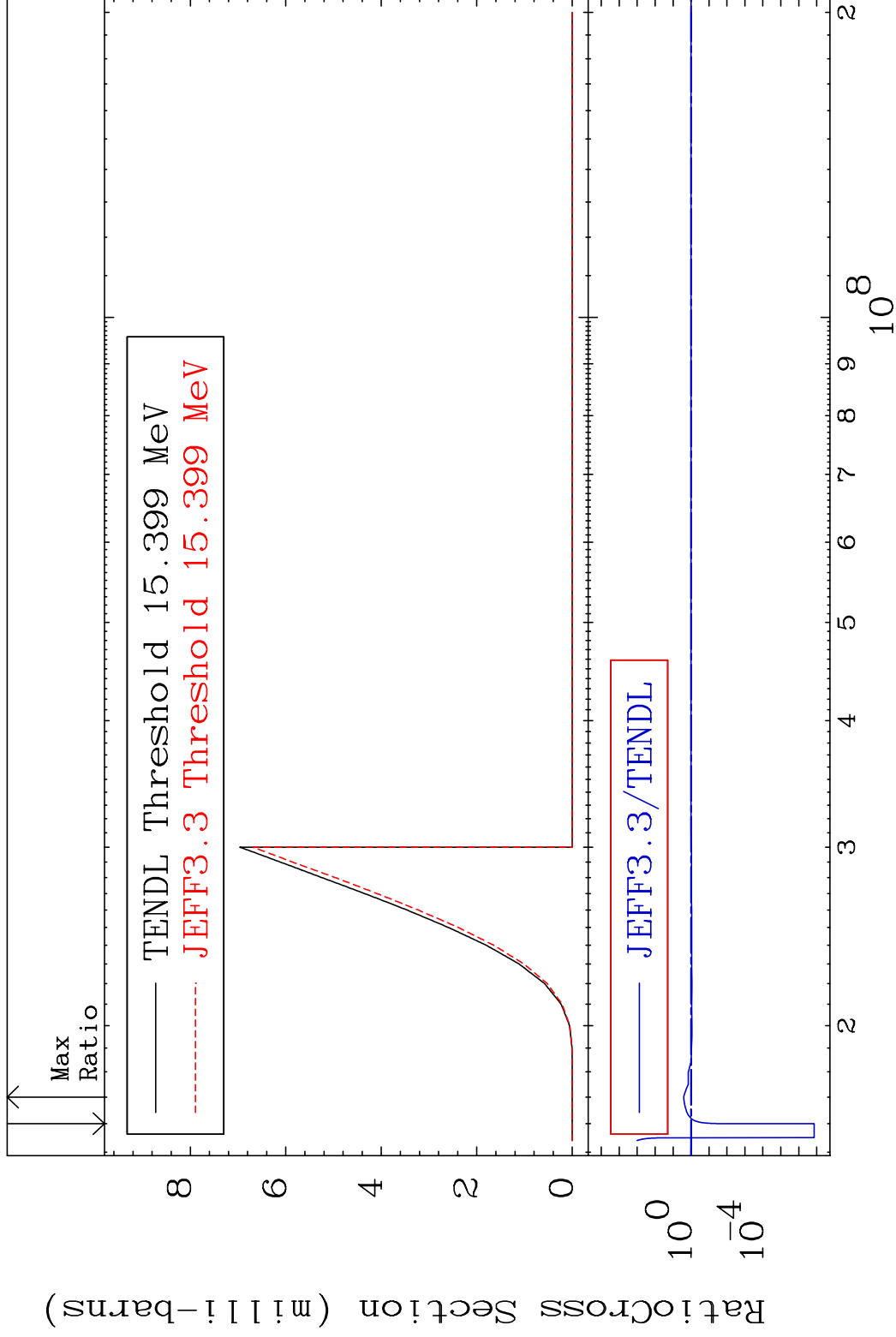
29-Cu-67

MAT 2937

(n, n') t

29-Cu-67

Cross Section -100.0 To 157.8 %



13

Incident Energy (eV)

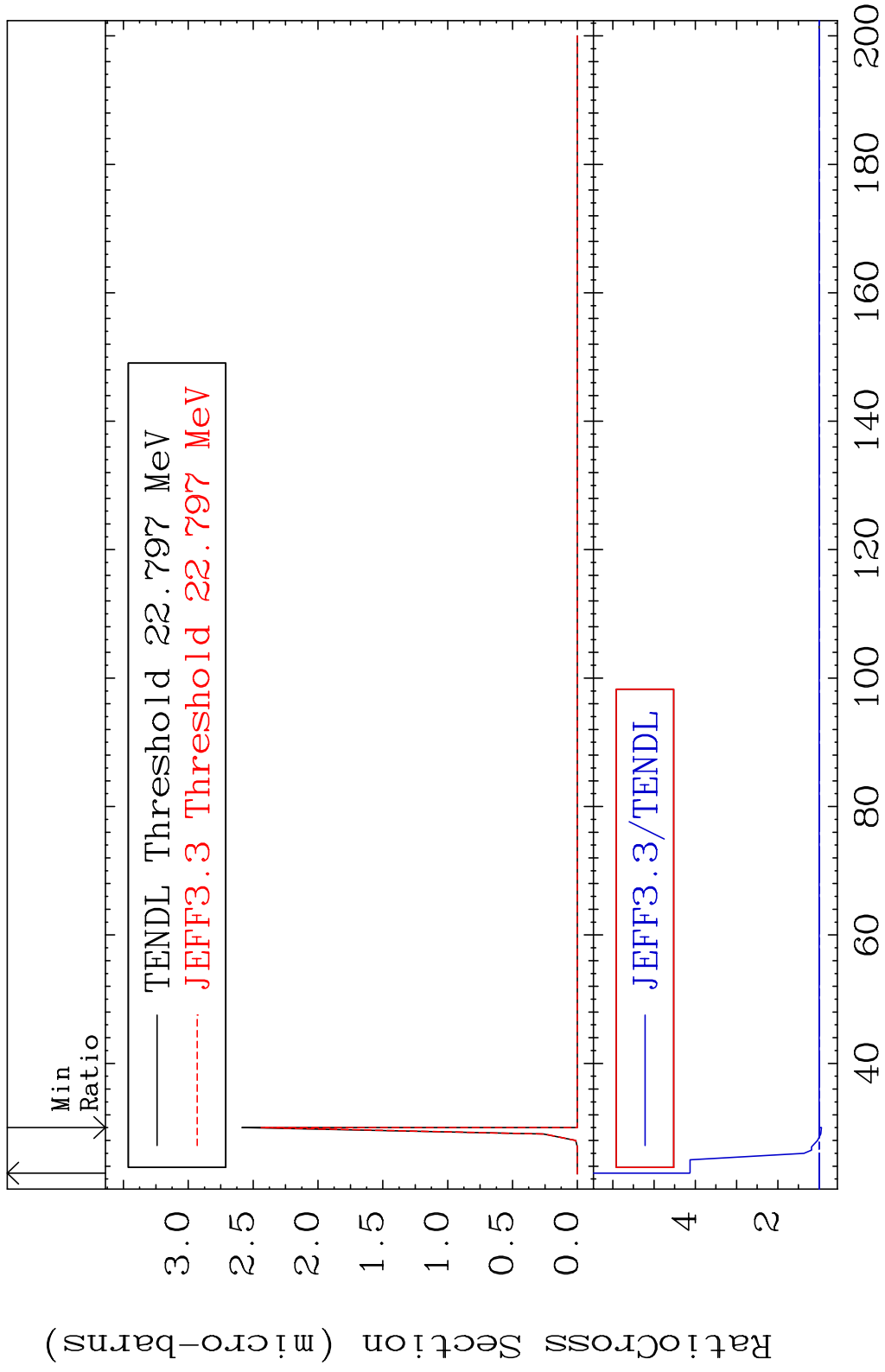
29-Cu-67

MAT 2937

(n,n') He-3

29-Cu-67

Cross Section -5.723 To 313.3 %

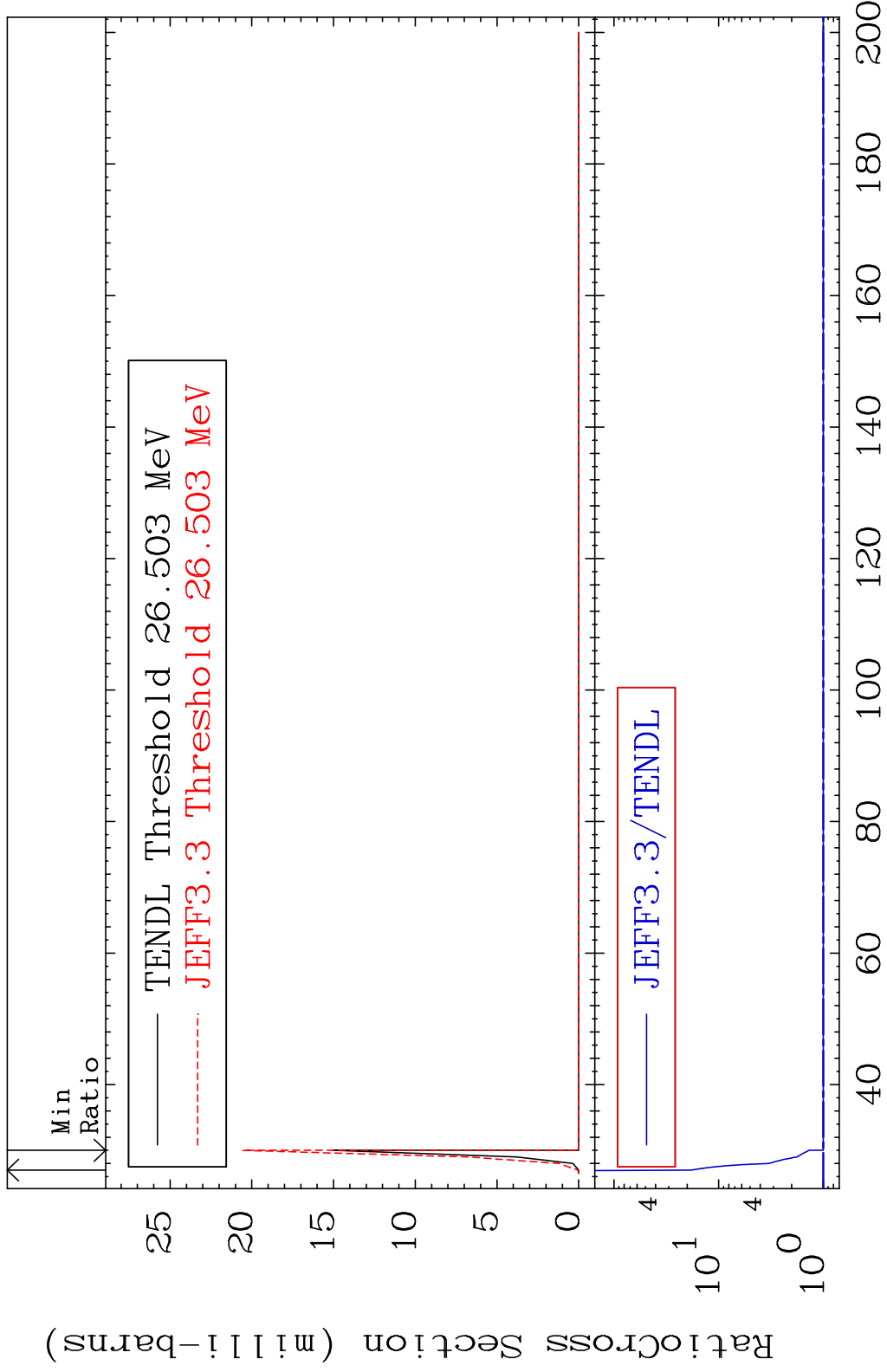


MAT 2937

(n,4n)

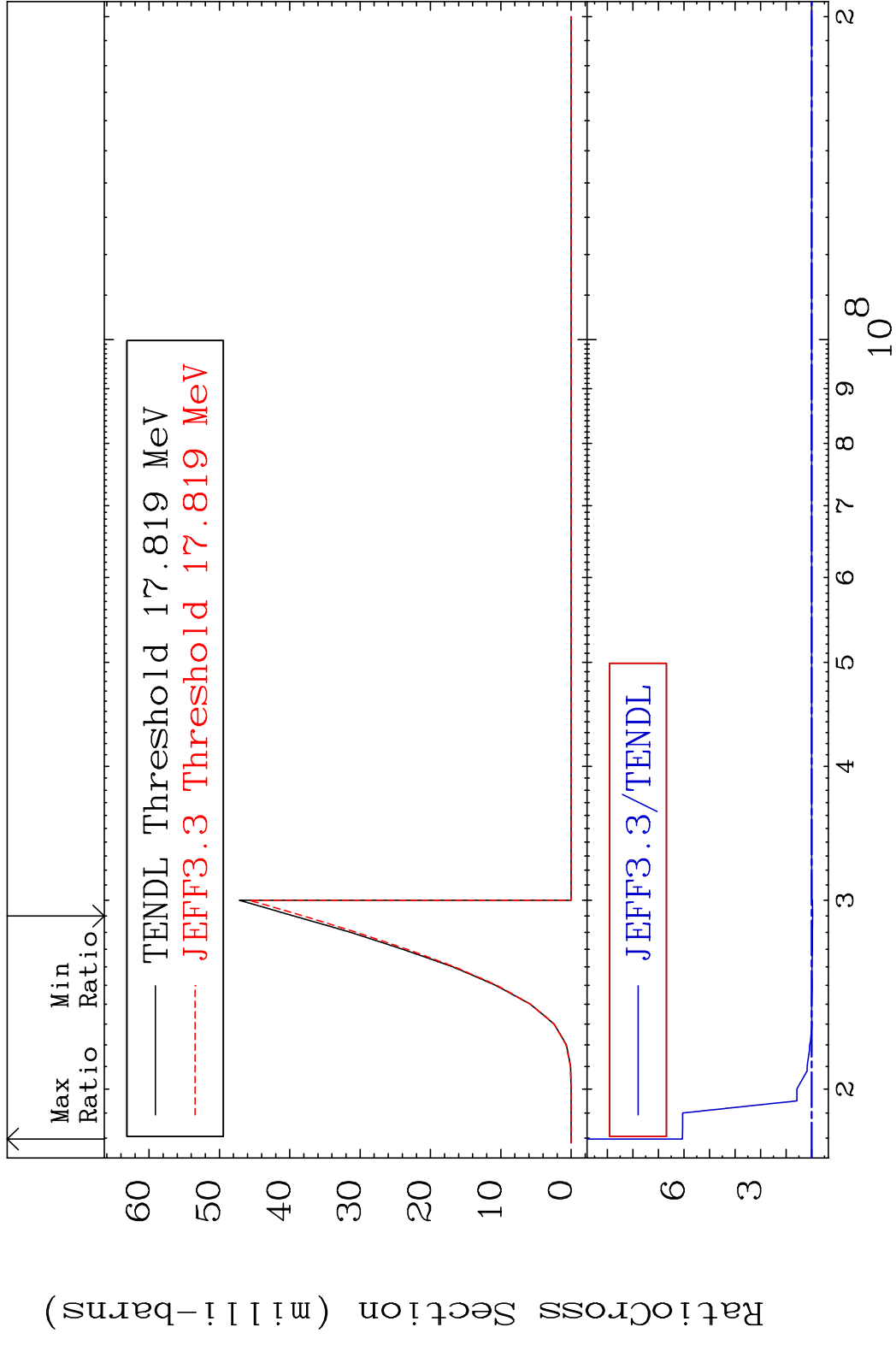
29-Cu-67

Cross Section 0.000 To 1722. %





MAT 2937 (n,2n) p 29-Cu-67  
 Cross Section -3.505 To 506.3 %

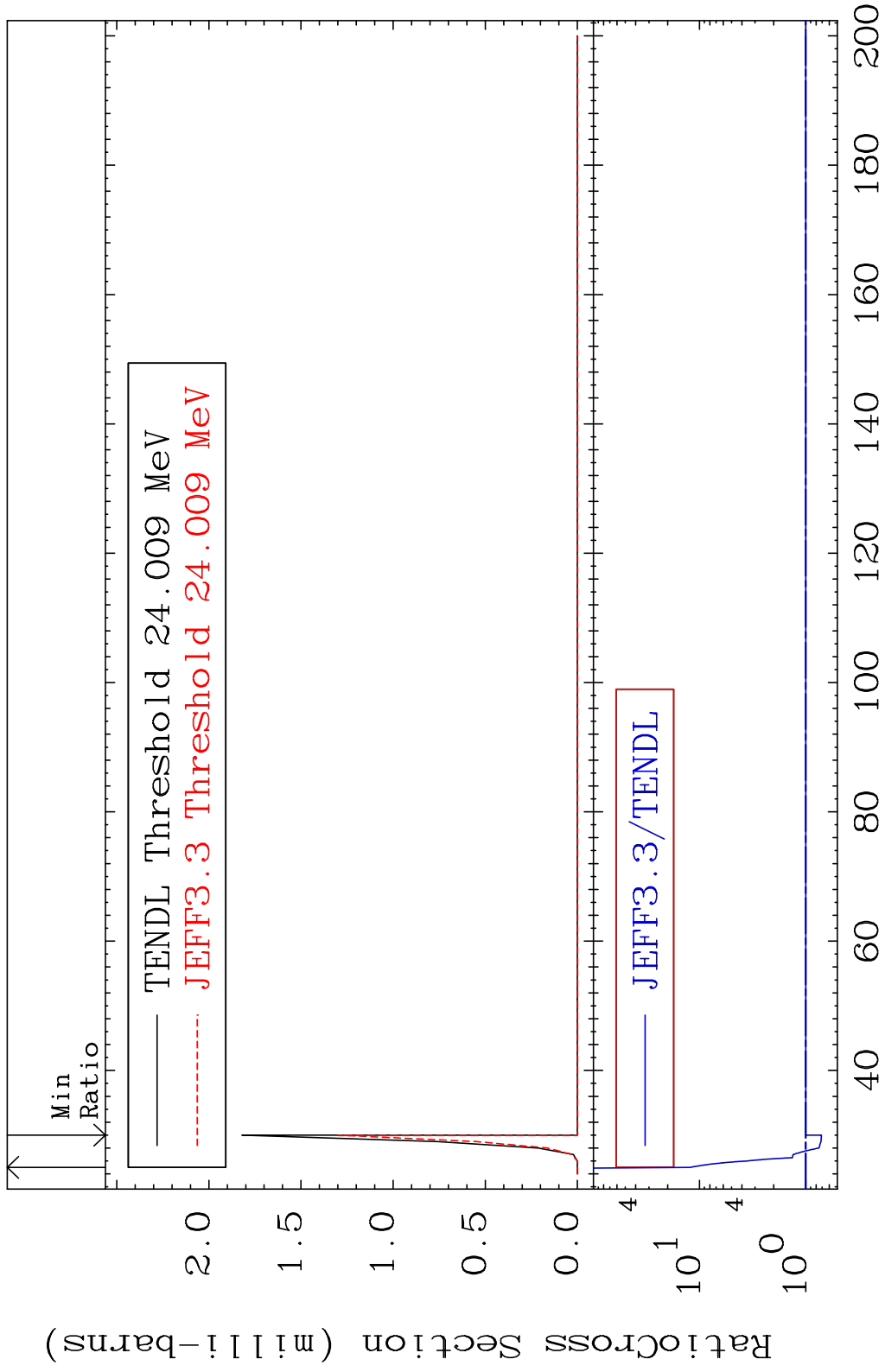


MAT 2937

(n,3n) p

29-Cu-67

Cross Section -28.73 To 1137. %

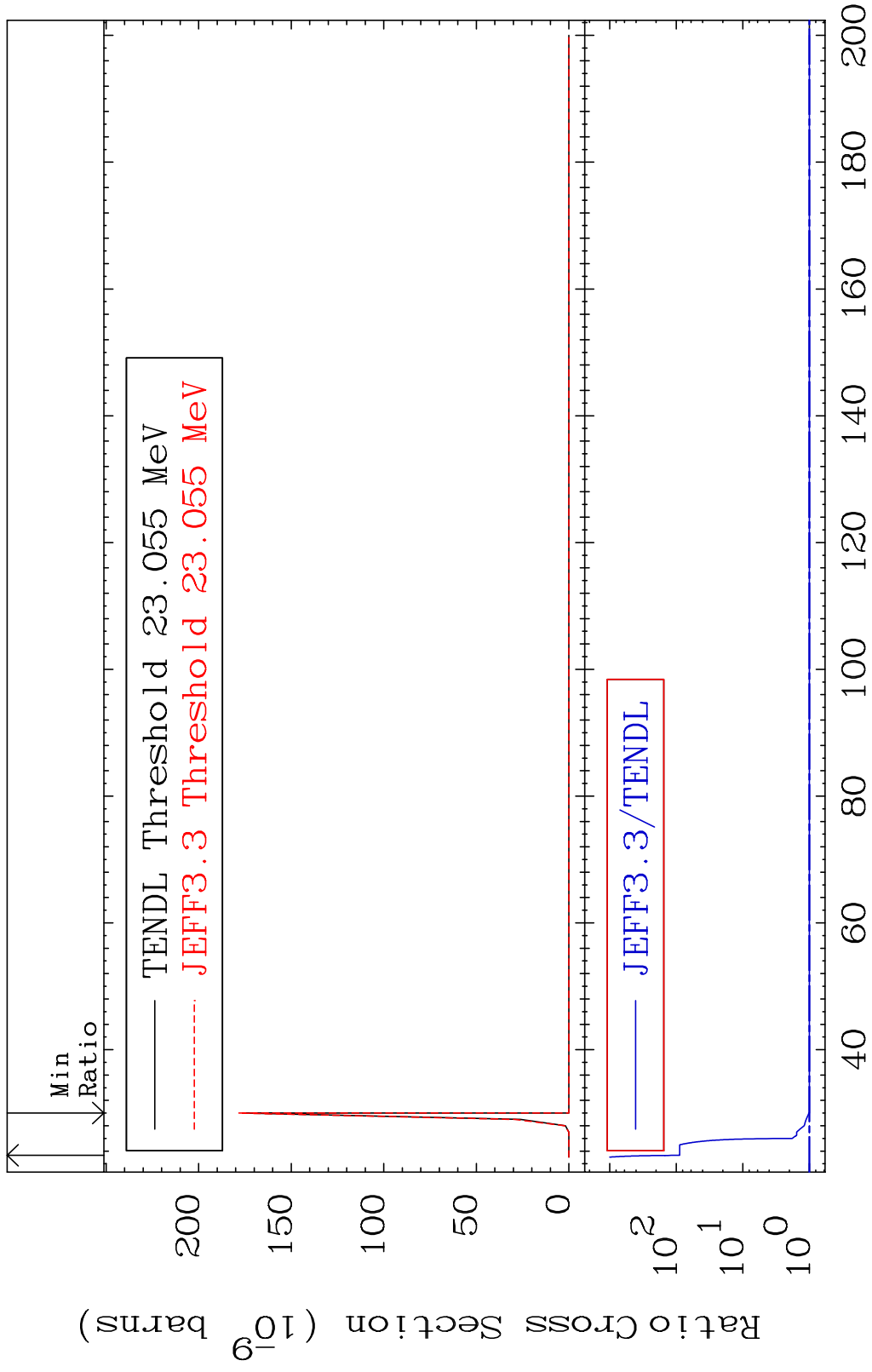


MAT 2937

(n,2n) p

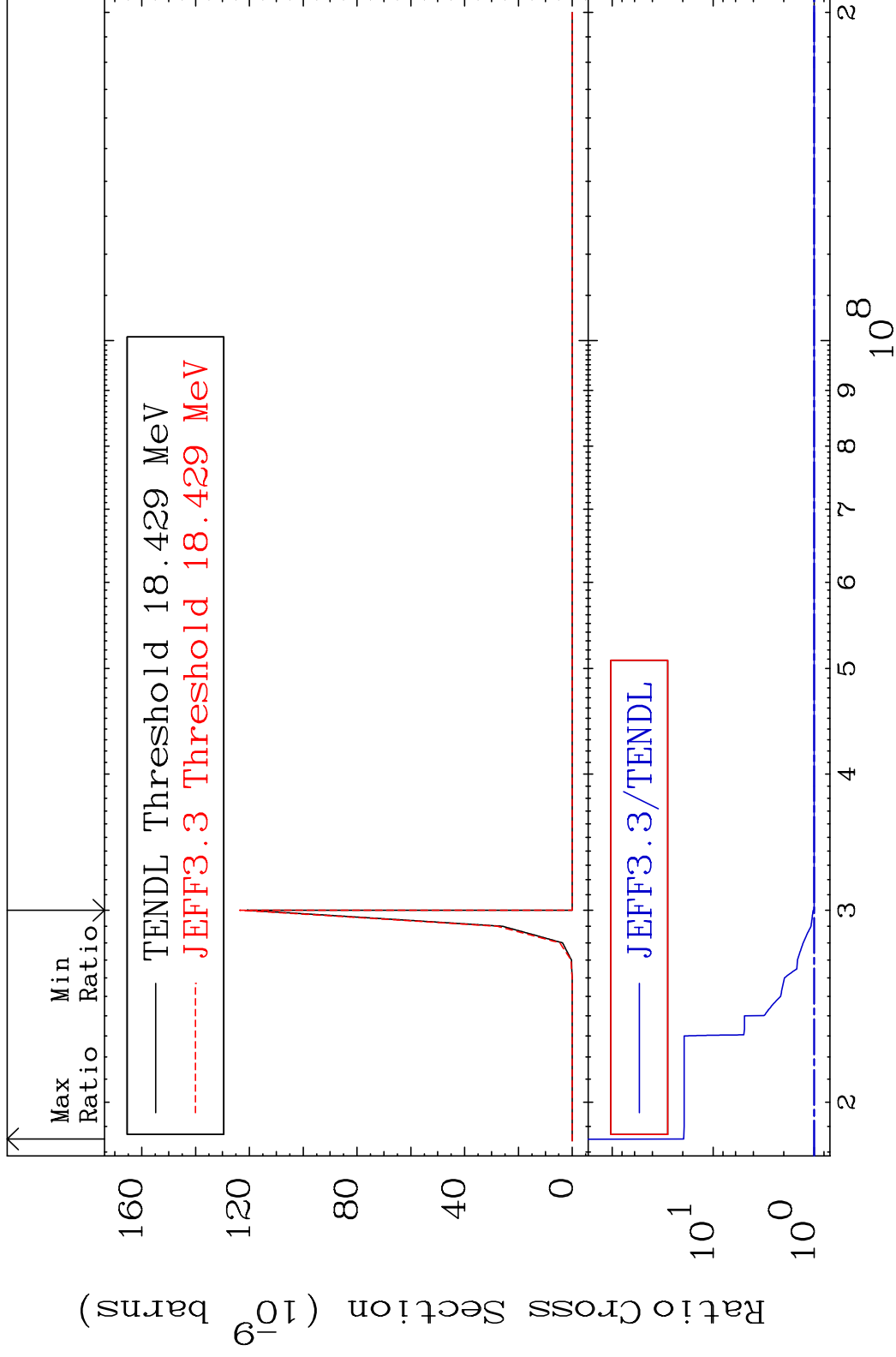
29-Cu-67

Cross Section 0.000 To 8776. %



MAT 2937

(n,n') p  $\alpha$   $^{29}\text{Cu-67}$   
Cross Section 0.000 To 1862. %



19

Incident Energy (eV)

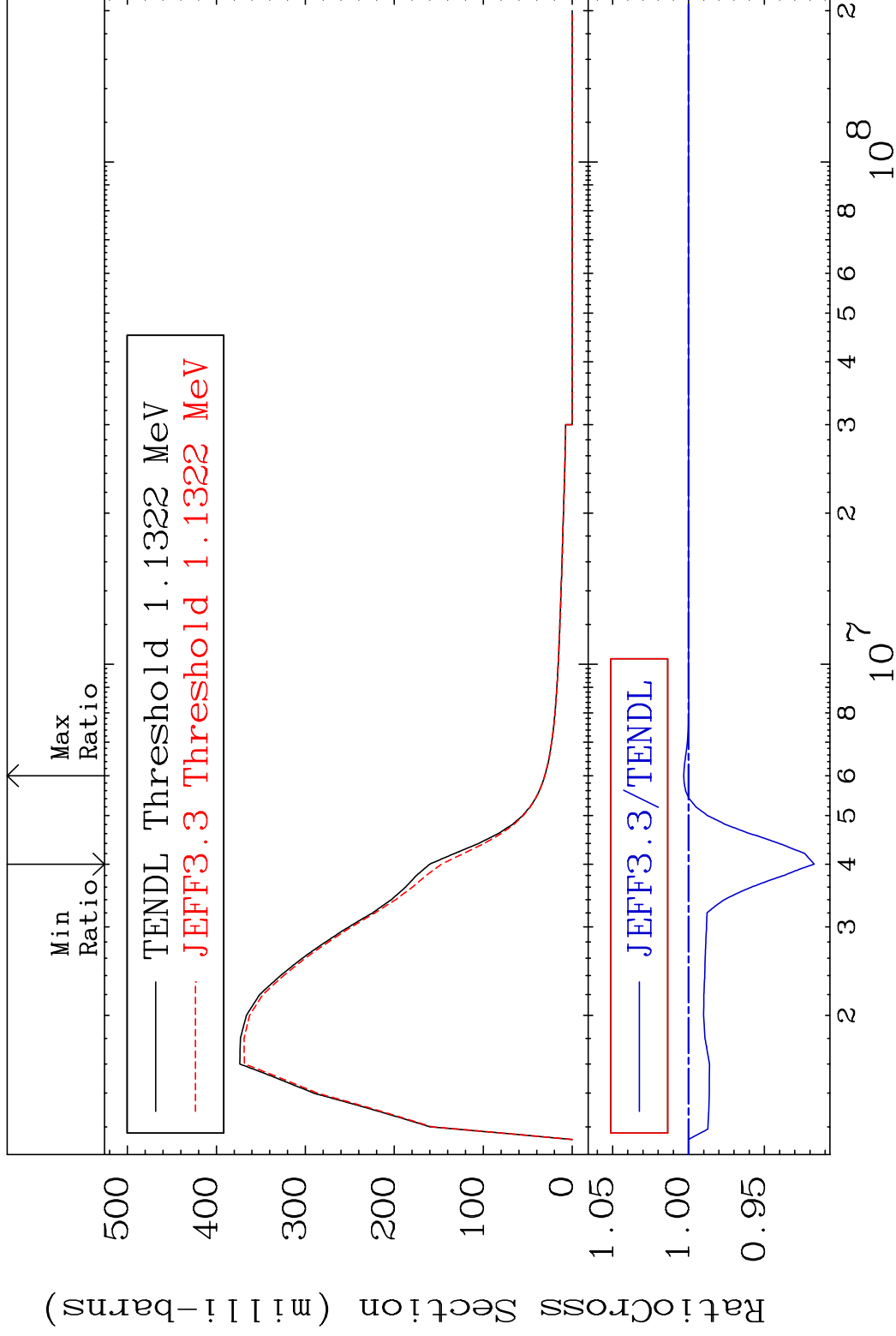
$^{29}\text{Cu-67}$

MAT 2937

MT= 51 (n, n') Level

29-Cu-67

Cross Section -8.273 To 0.320 %

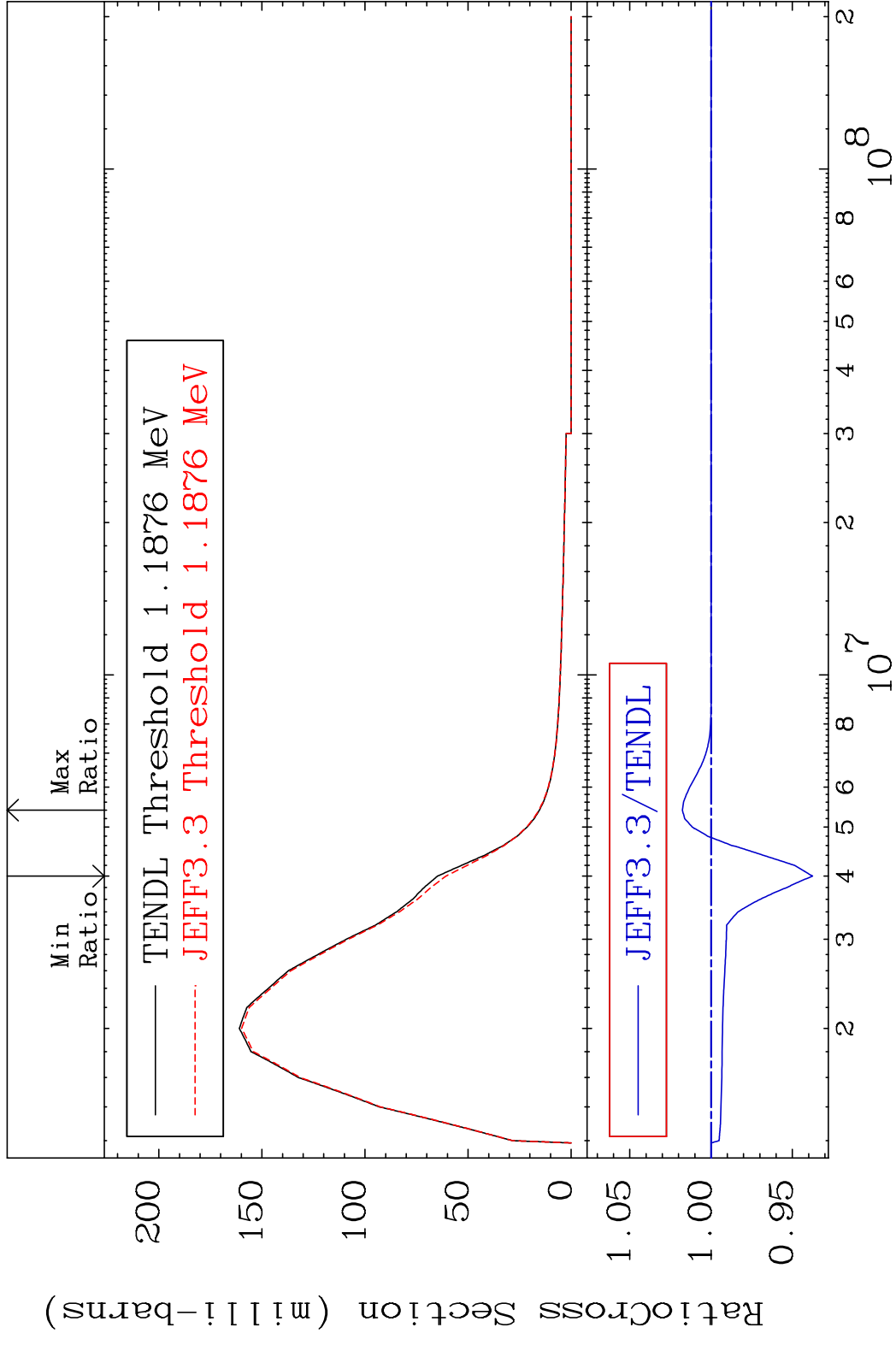


20

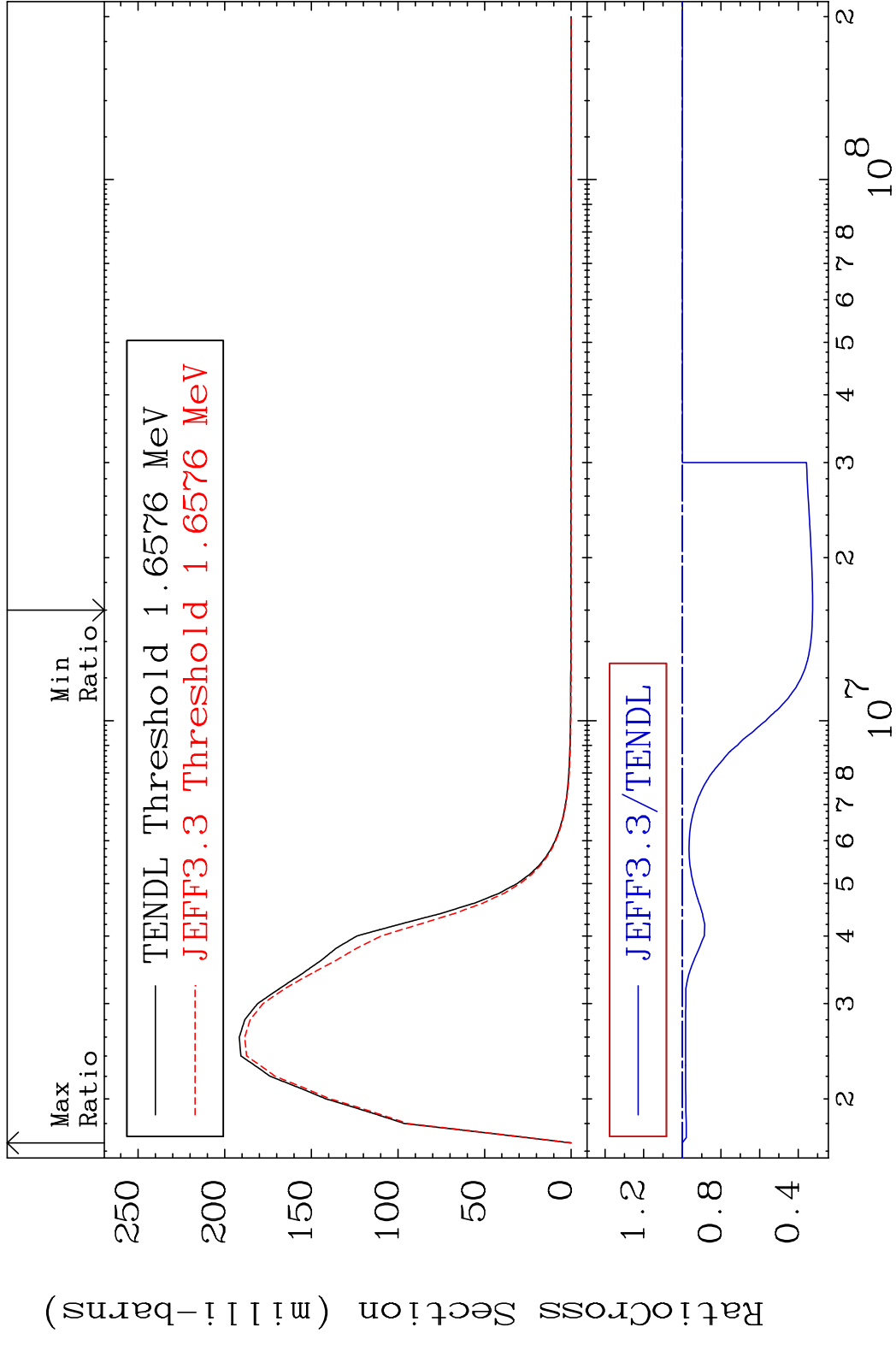
Incident Energy (eV)

29-Cu-67

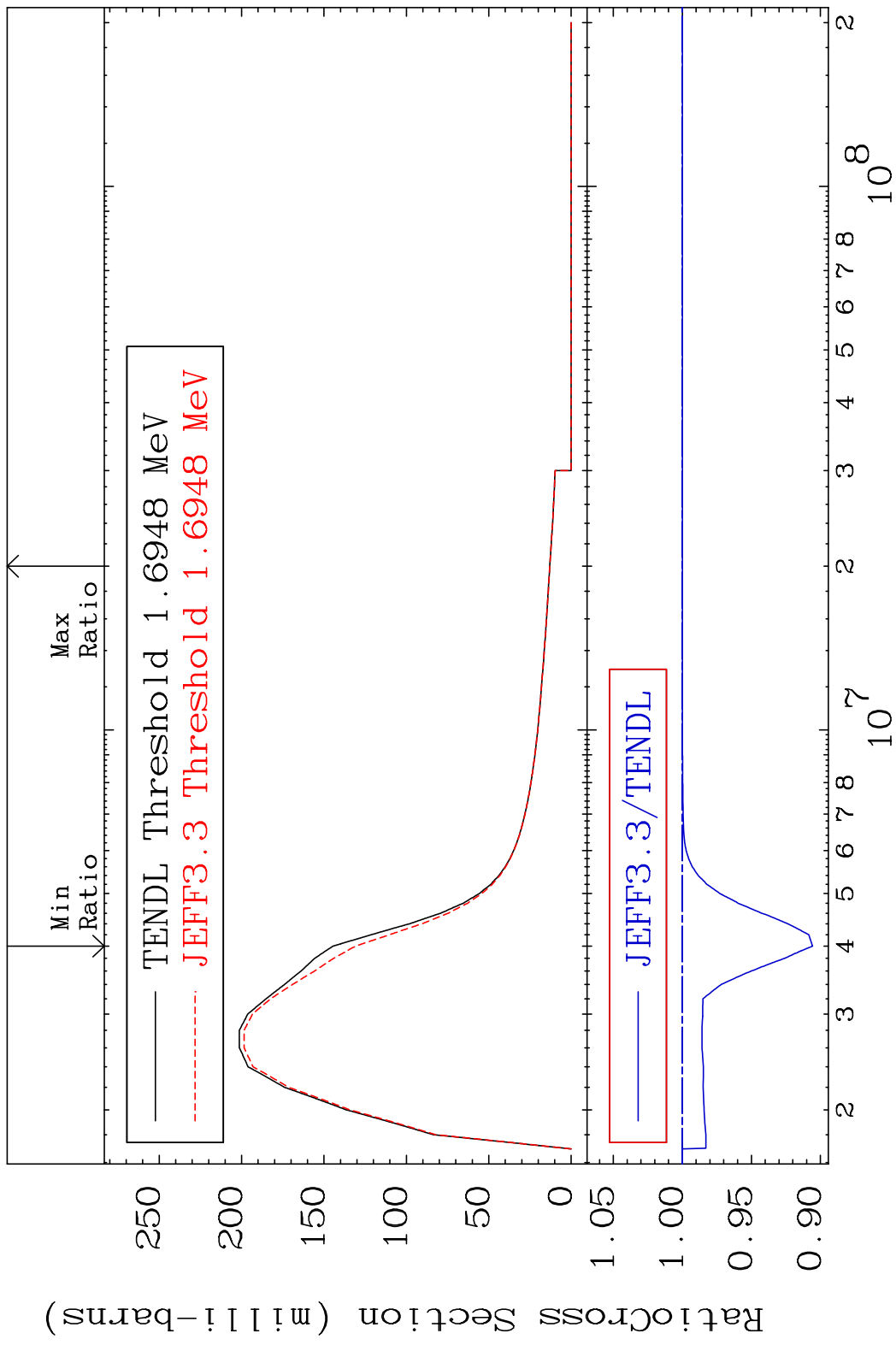
MAT 2937 MT= 52 (n, n') Level 29-Cu-67  
 Cross Section -6.239 To 1.767 %



MAT 2937      MT= 53 (n, n') Level      29-Cu-67  
 Cross Section    -67.39 To 0.000 %



MAT 2937 MT= 54 (n, n') Level 29-Cu-67  
 Cross Section -9.431 To 0.000 %



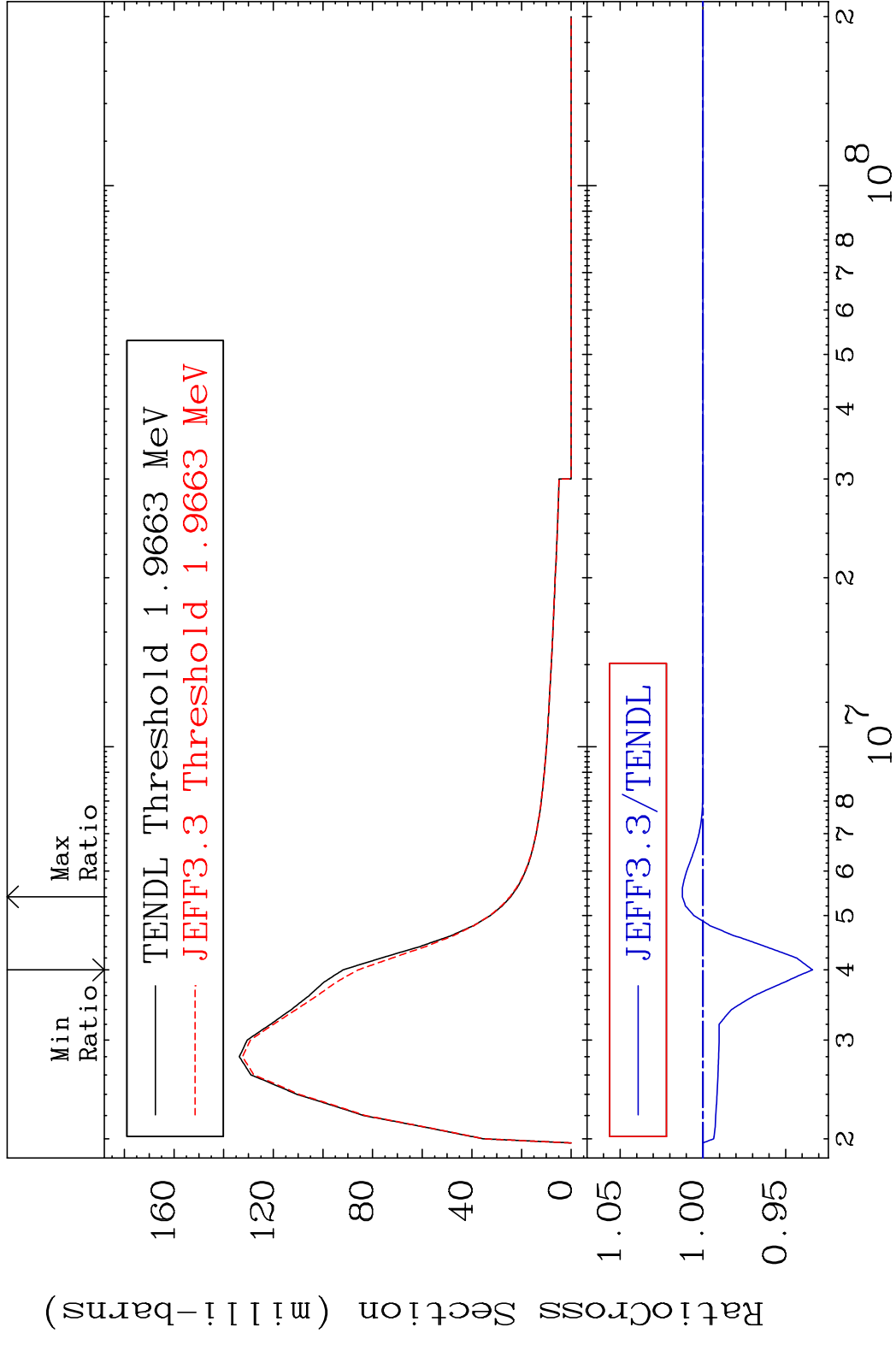


MAT 2937

MT= 55 (n, n') Level

29-Cu-67

Cross Section -6.625 To 1.242 %

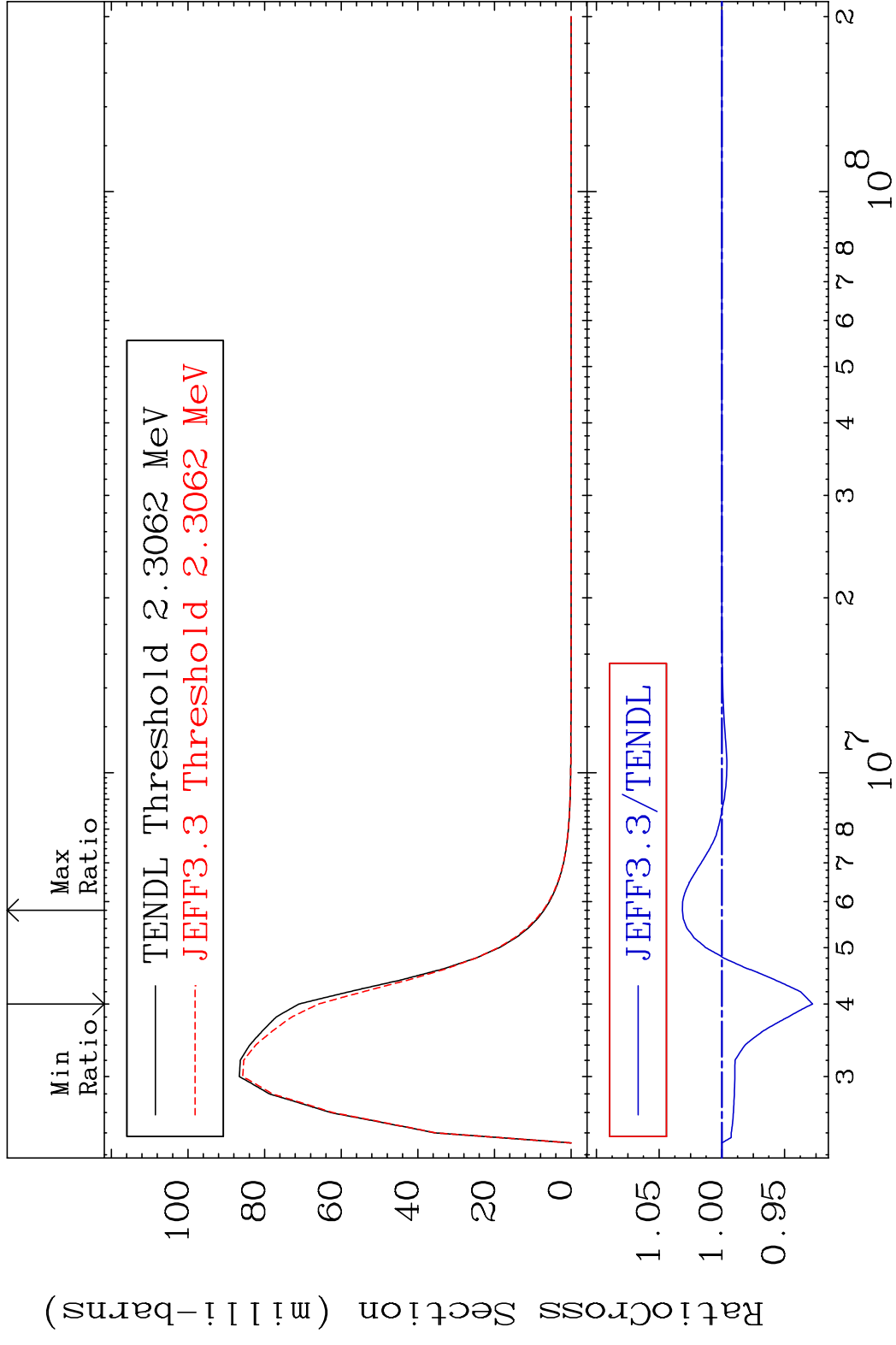


MAT 2937

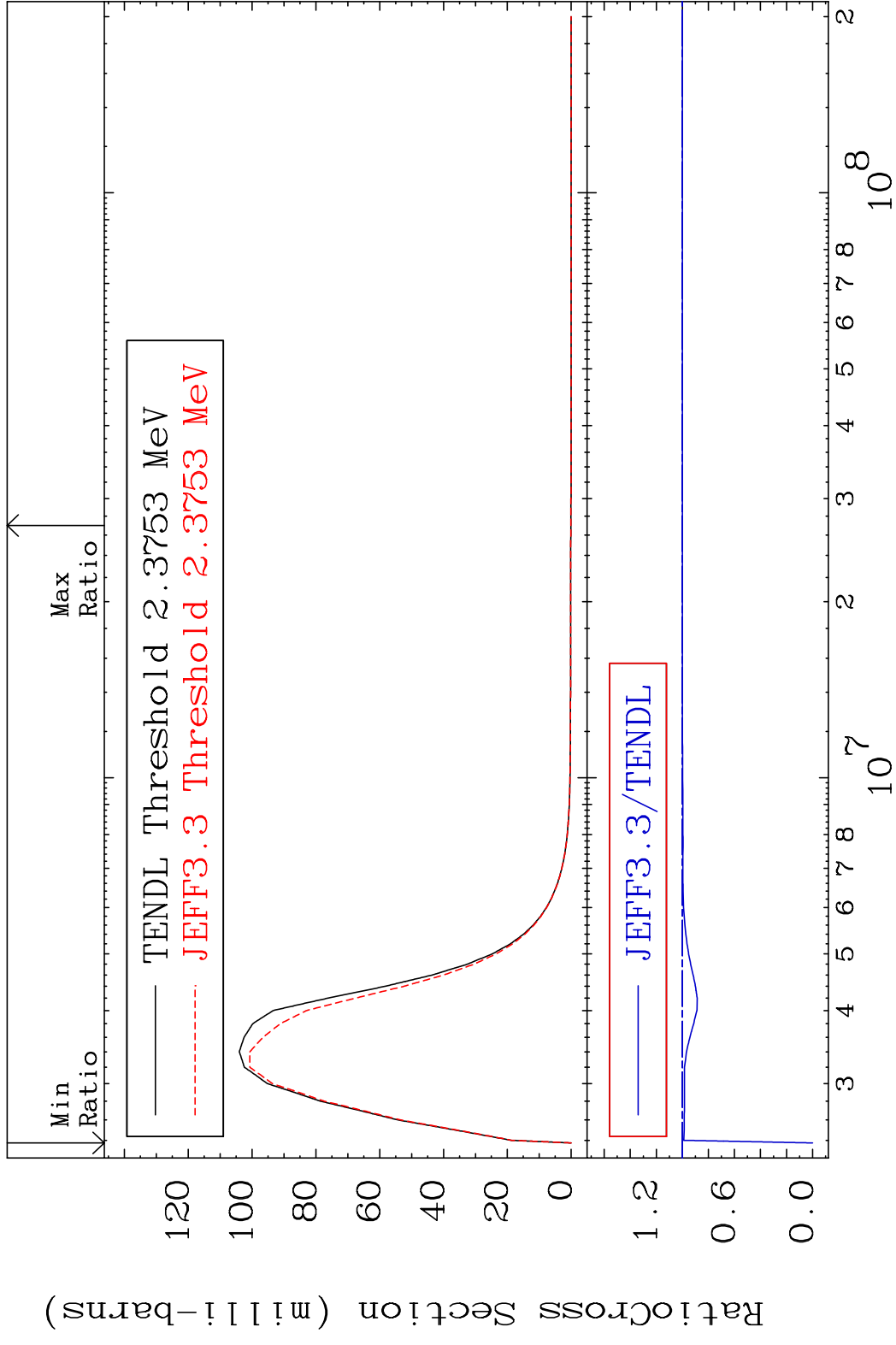
MT= 56 (n, n') Level

29-Cu-67

Cross Section -7.228 To 3.151 %



MAT 2937 MT= 57 (n, n') Level 29-Cu-67  
 Cross Section -100.0 To 0.000 %

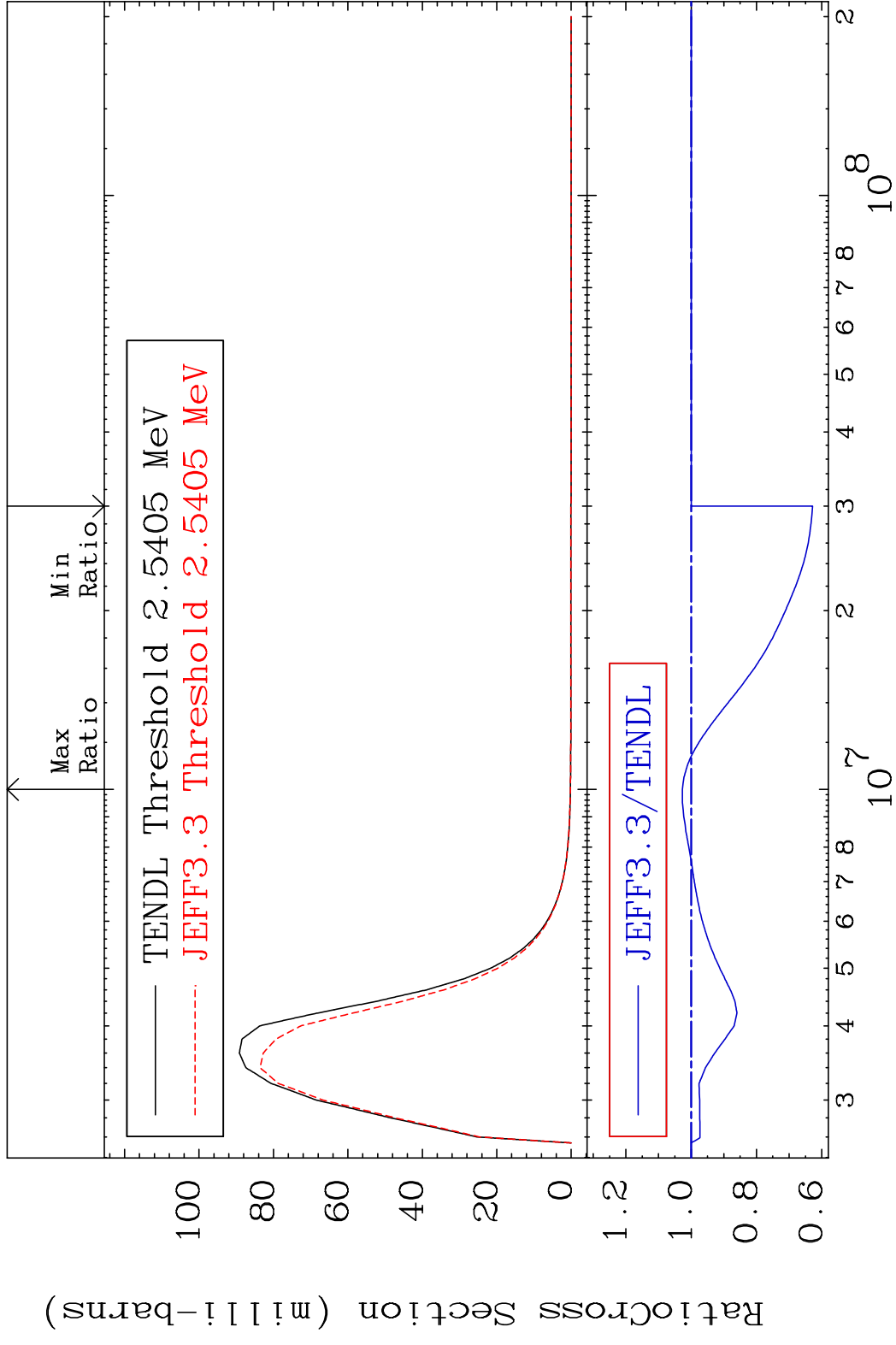


MAT 2937

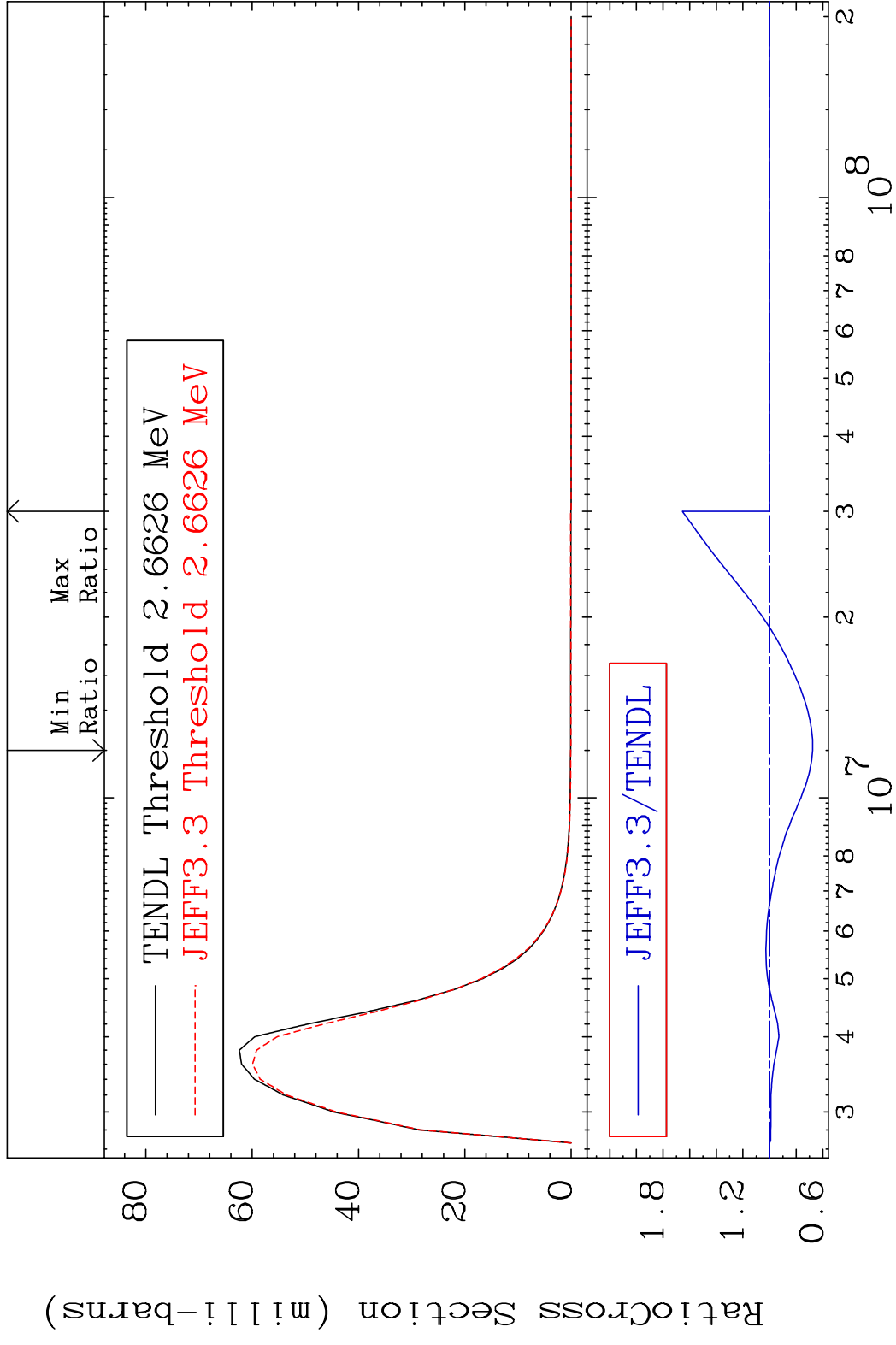
MT= 58 (n, n') Level

29-Cu-67

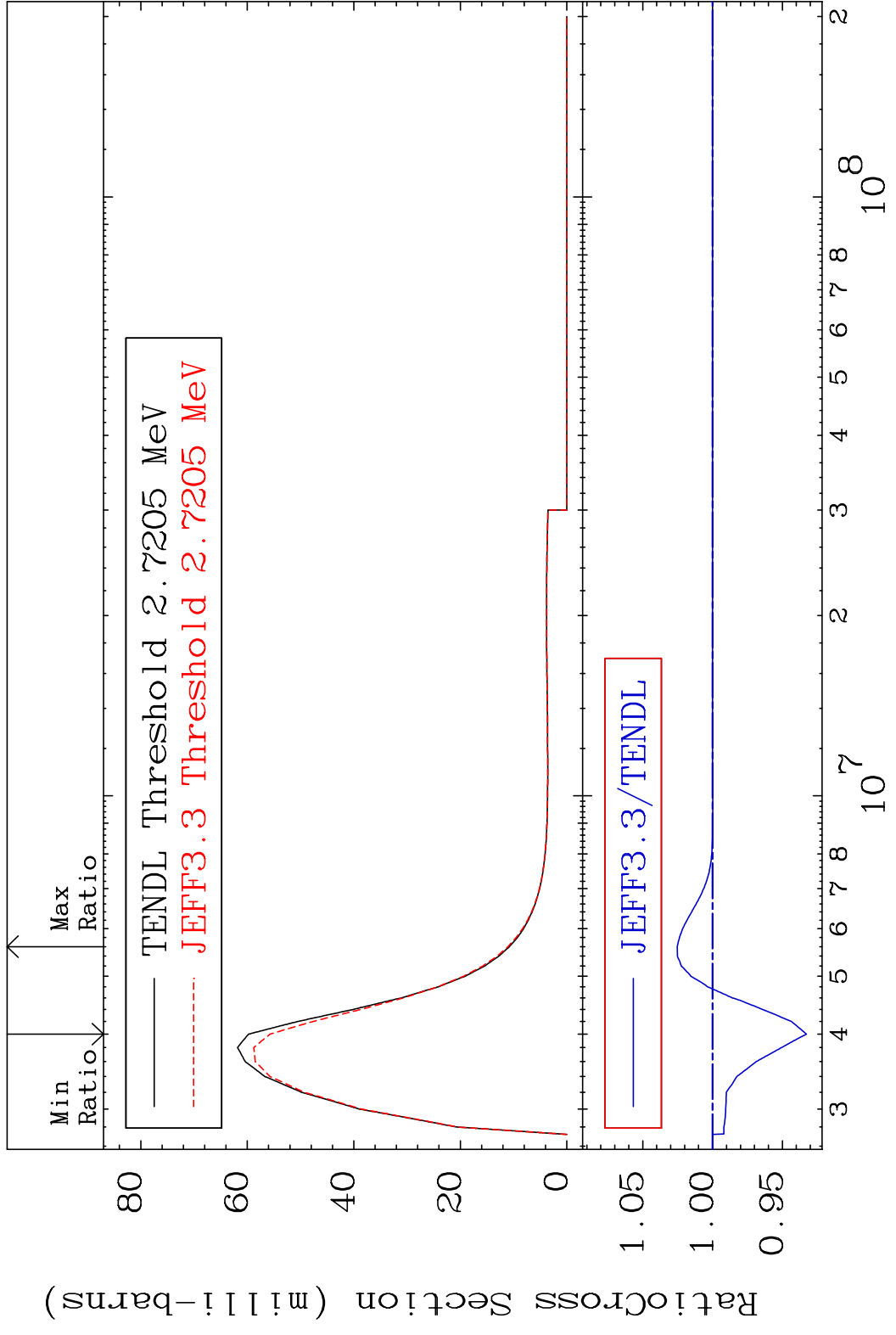
Cross Section -37.17 To 2.702 %



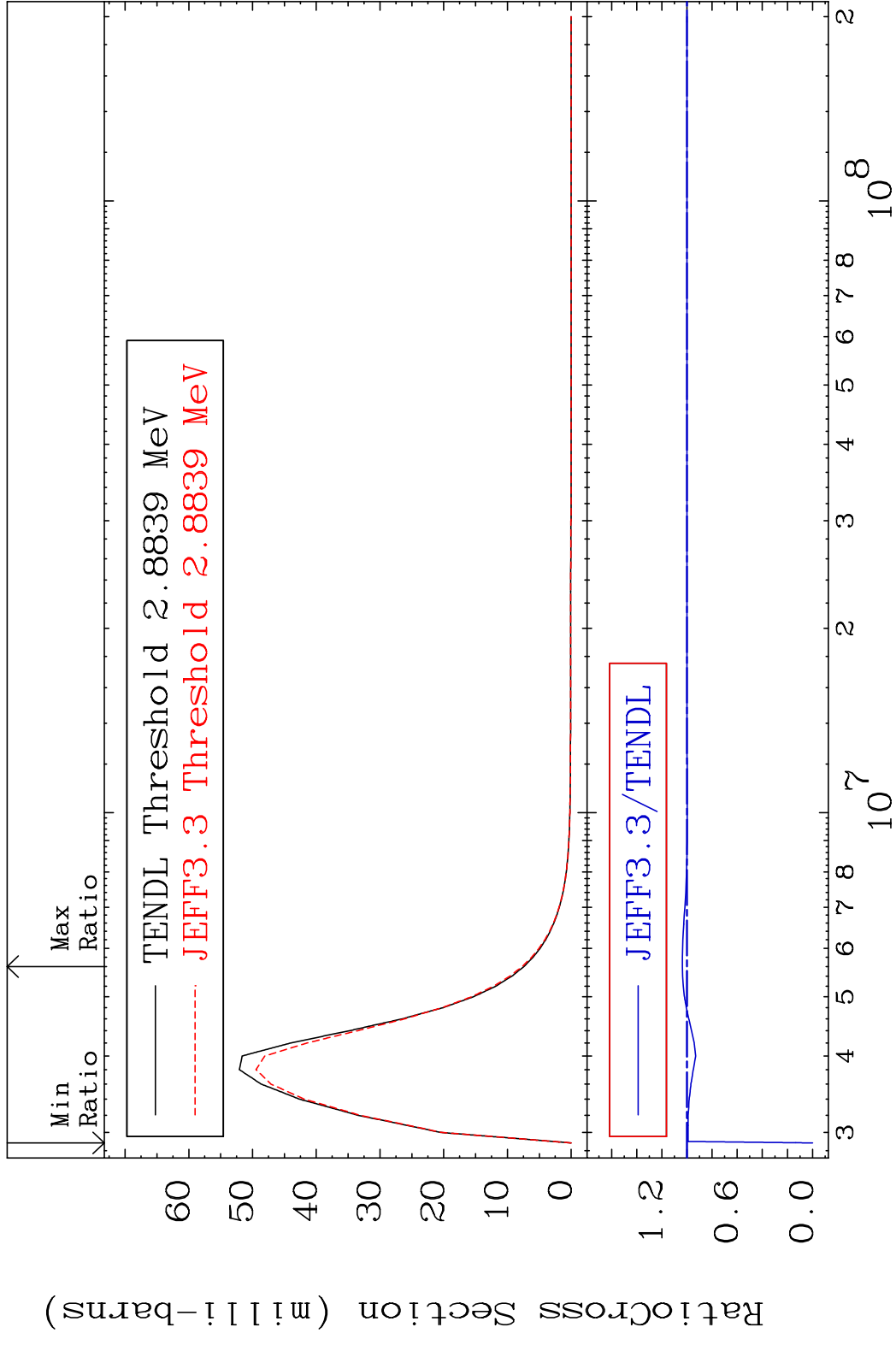
MAT 2937 MT= 59 (n, n') Level 29-Cu-67  
 Cross Section -32.31 To 65.49 %



MAT 2937 MT= 60 (n, n') Level 29-Cu-67  
 Cross Section -6.720 To 2.532 %

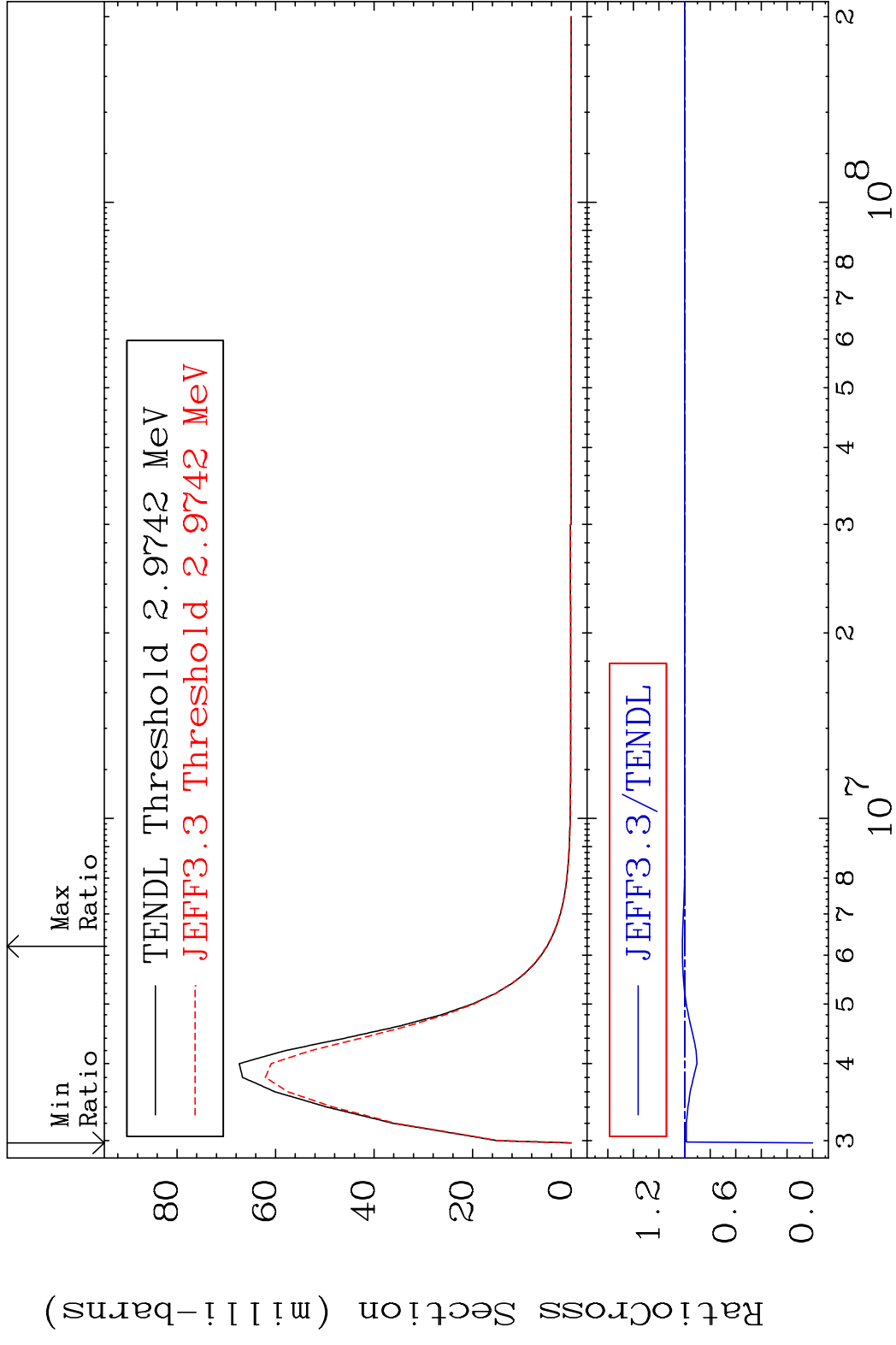


MAT 2937 MT= 61 (n, n') Level 29-Cu-67  
 Cross Section -100.0 To 3.661 %



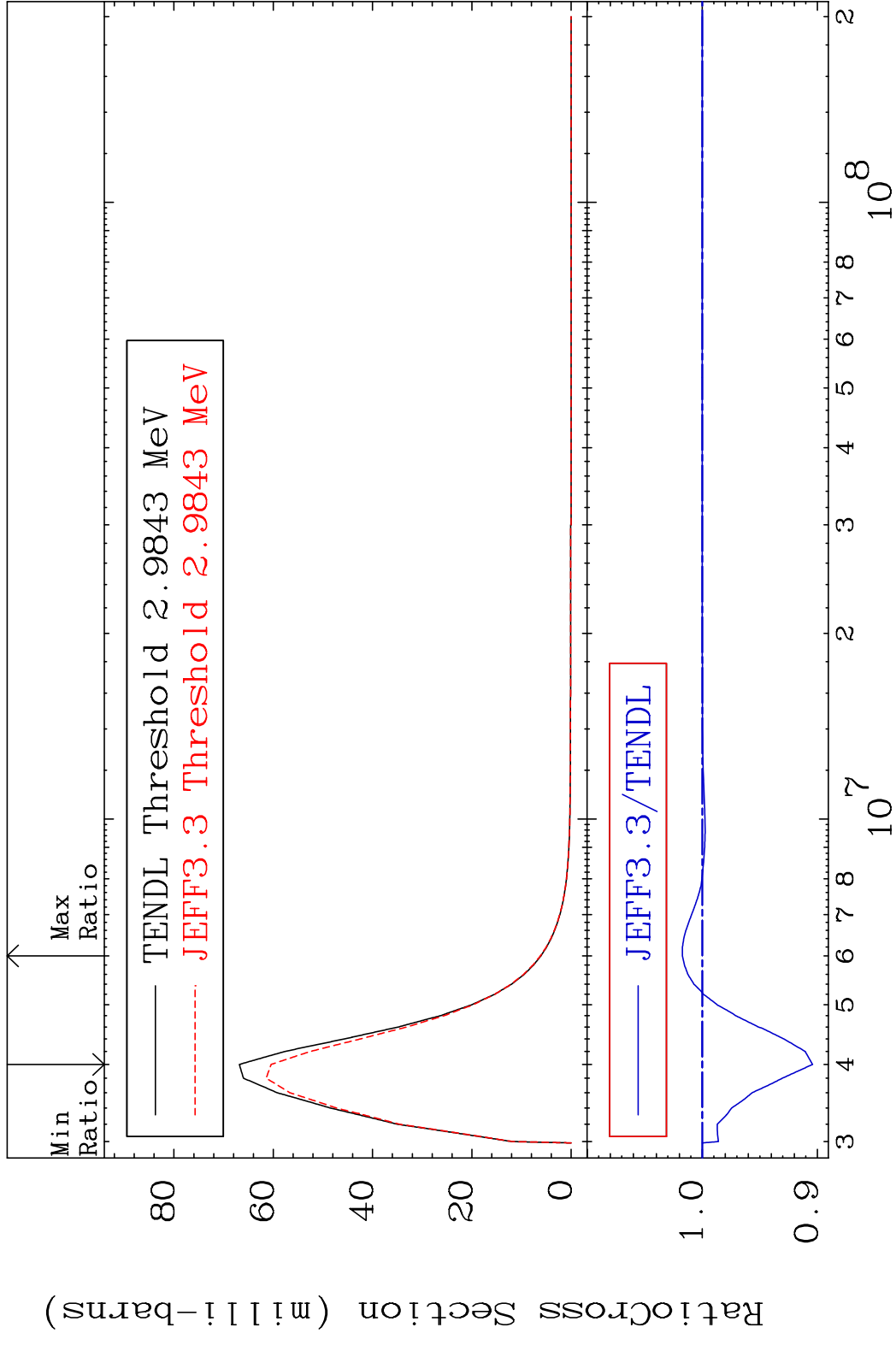
30 30 Incident Energy (eV) 29-Cu-67

MAT 2937 MT= 62 (n, n') Level 29-Cu-67  
 Cross Section -100.0 To 1.756 %

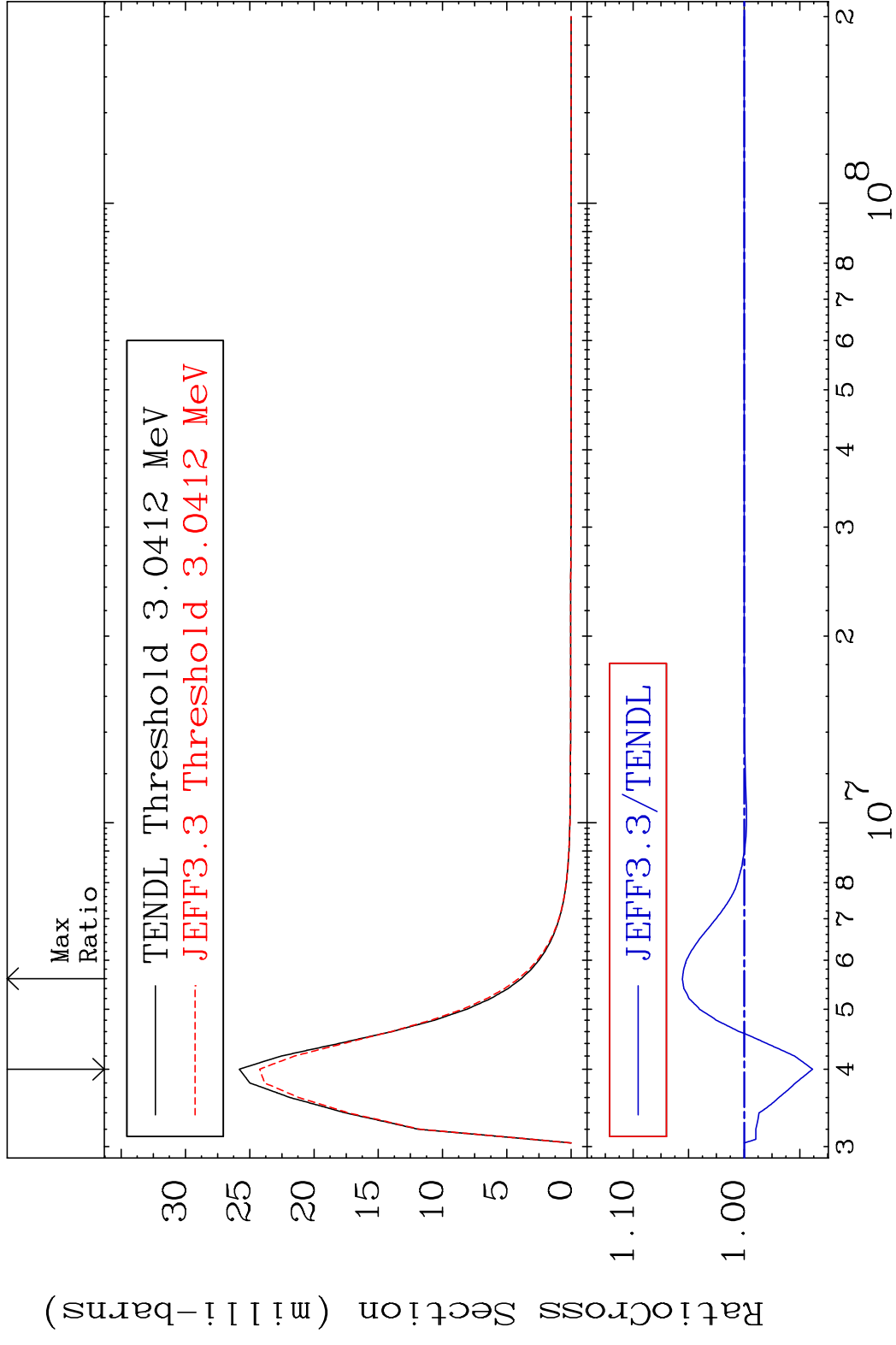




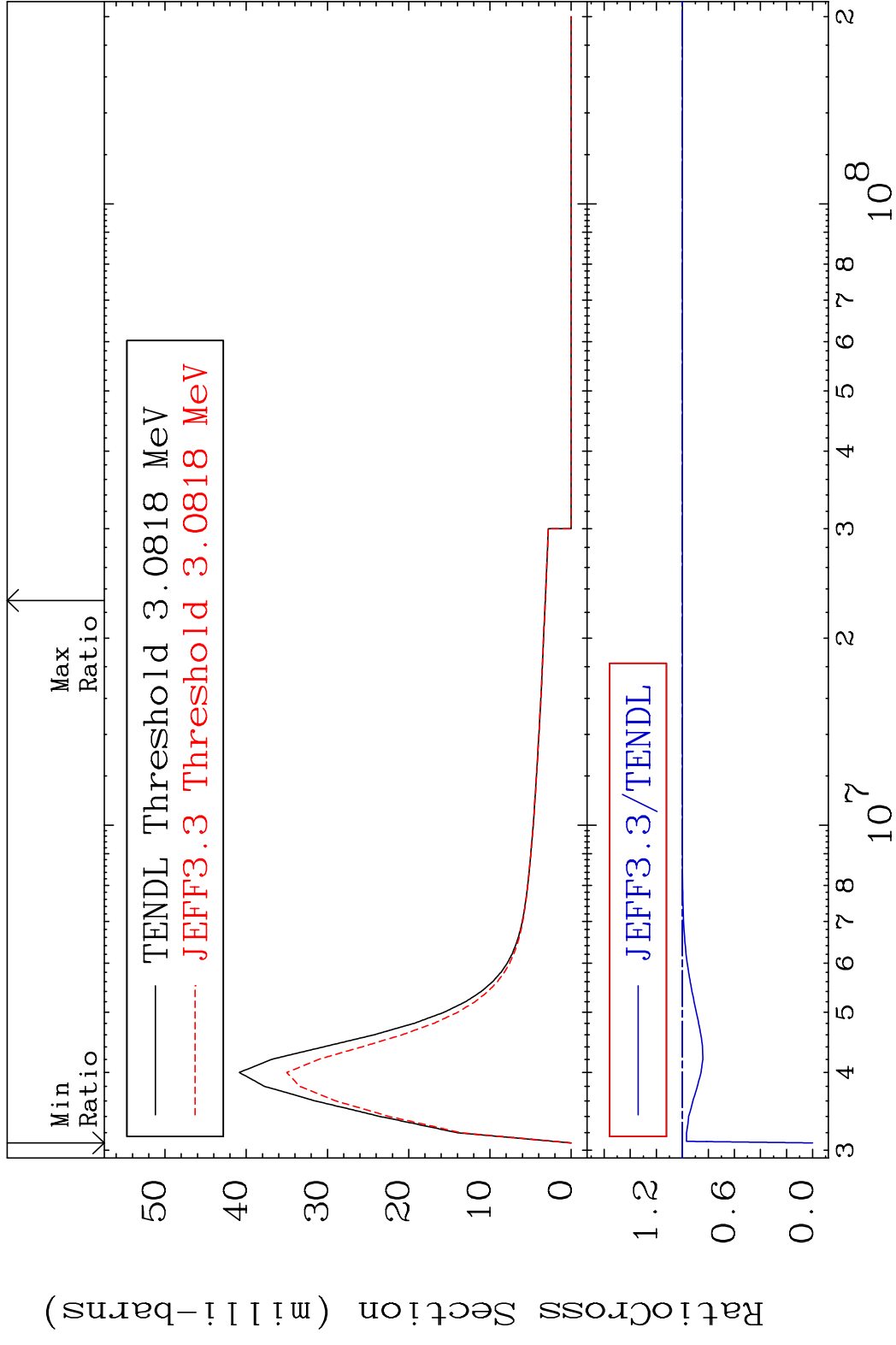
MAT 2937 MT= 63 (n, n') Level 29-Cu-67  
 Cross Section -9.583 To 1.736 %



MAT 2937 MT= 64 (n, n') Level 29-Cu-67  
 Cross Section -6.140 To 5.567 %



MAT 2937 MT= 65 (n, n') Level 29-Cu-67  
 Cross Section -100.0 To 0.000 %

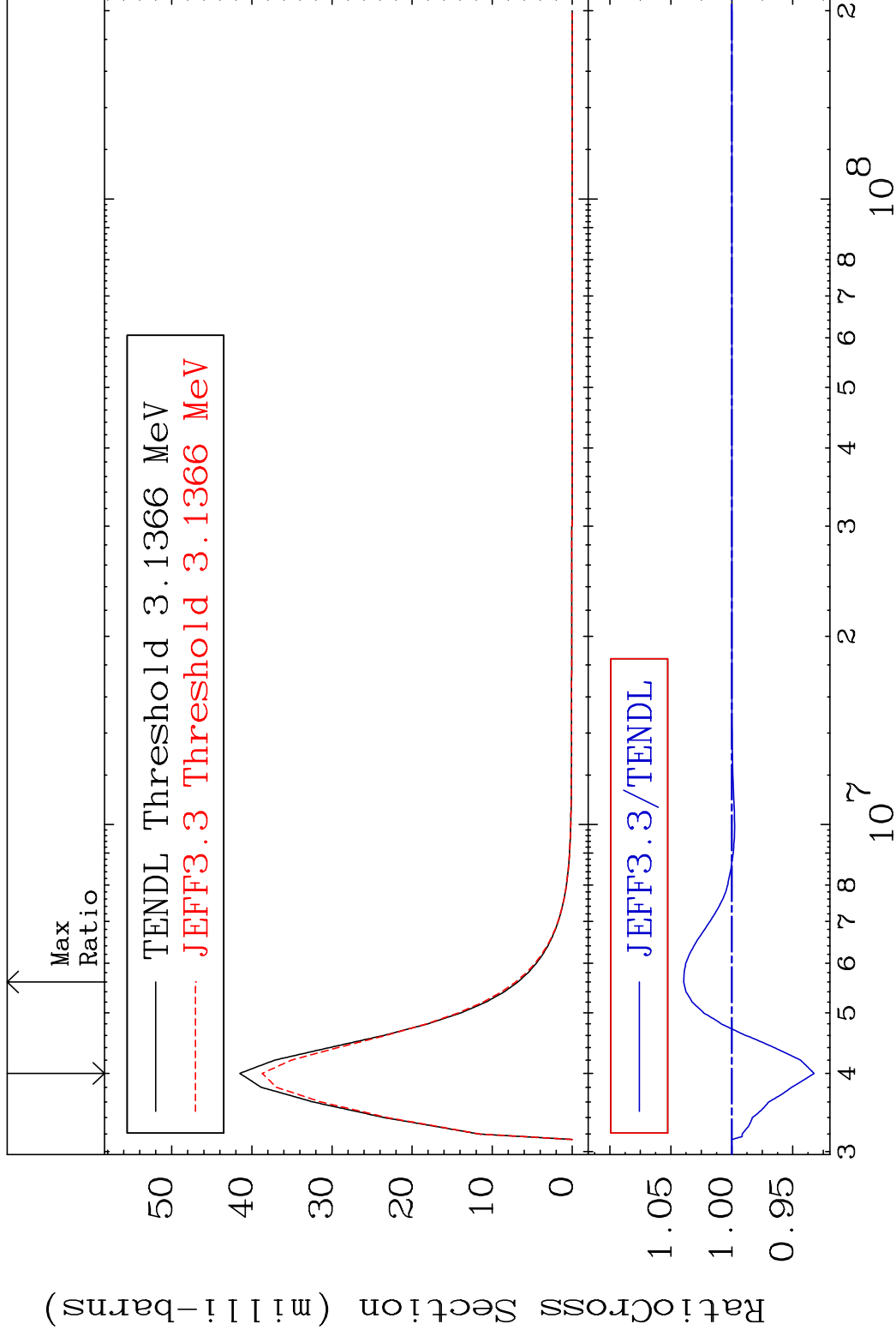


MAT 2937

MT= 66 (n, n') Level

29-Cu-67

Cross Section -6.749 To 3.948 %

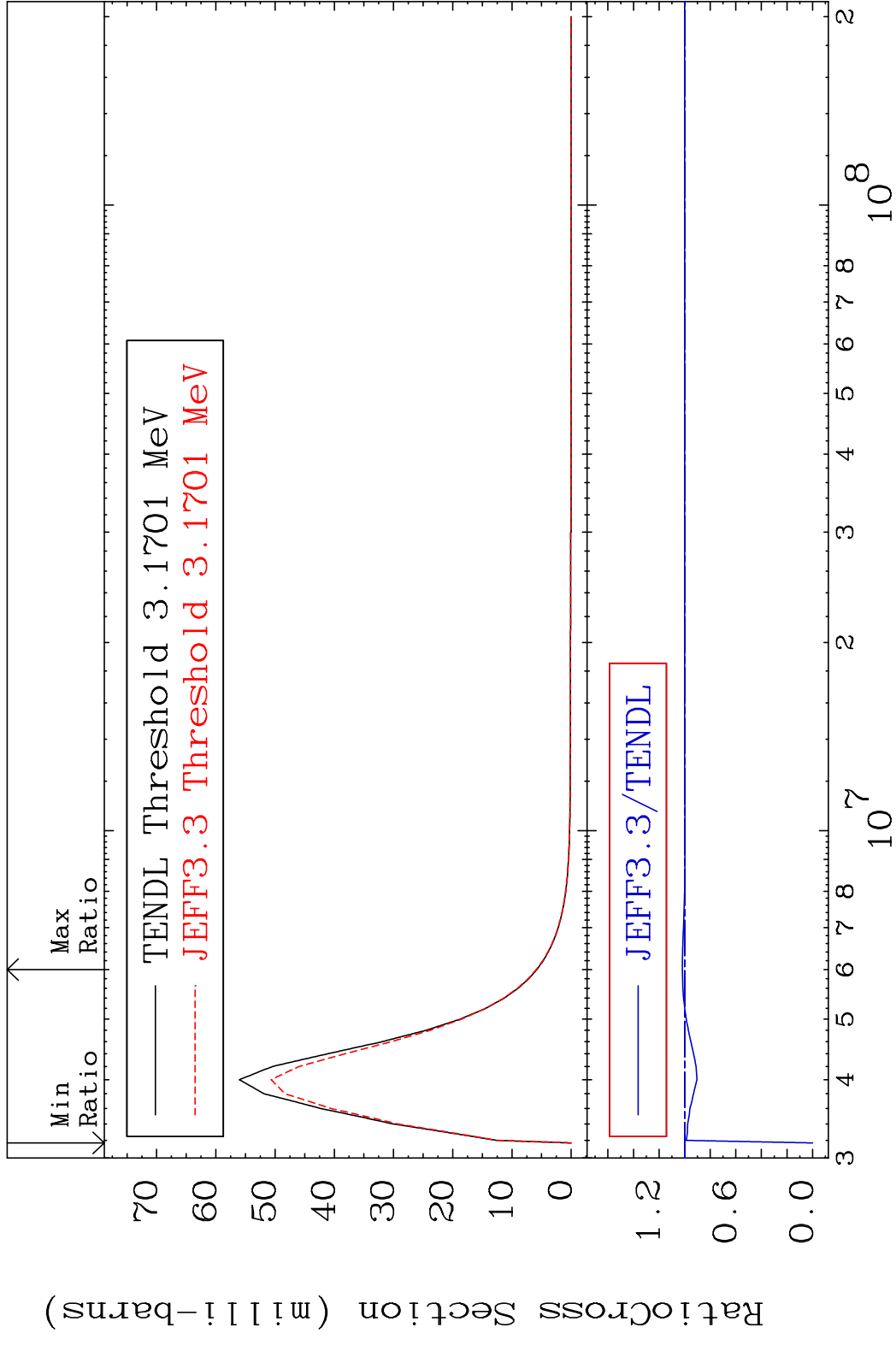


35

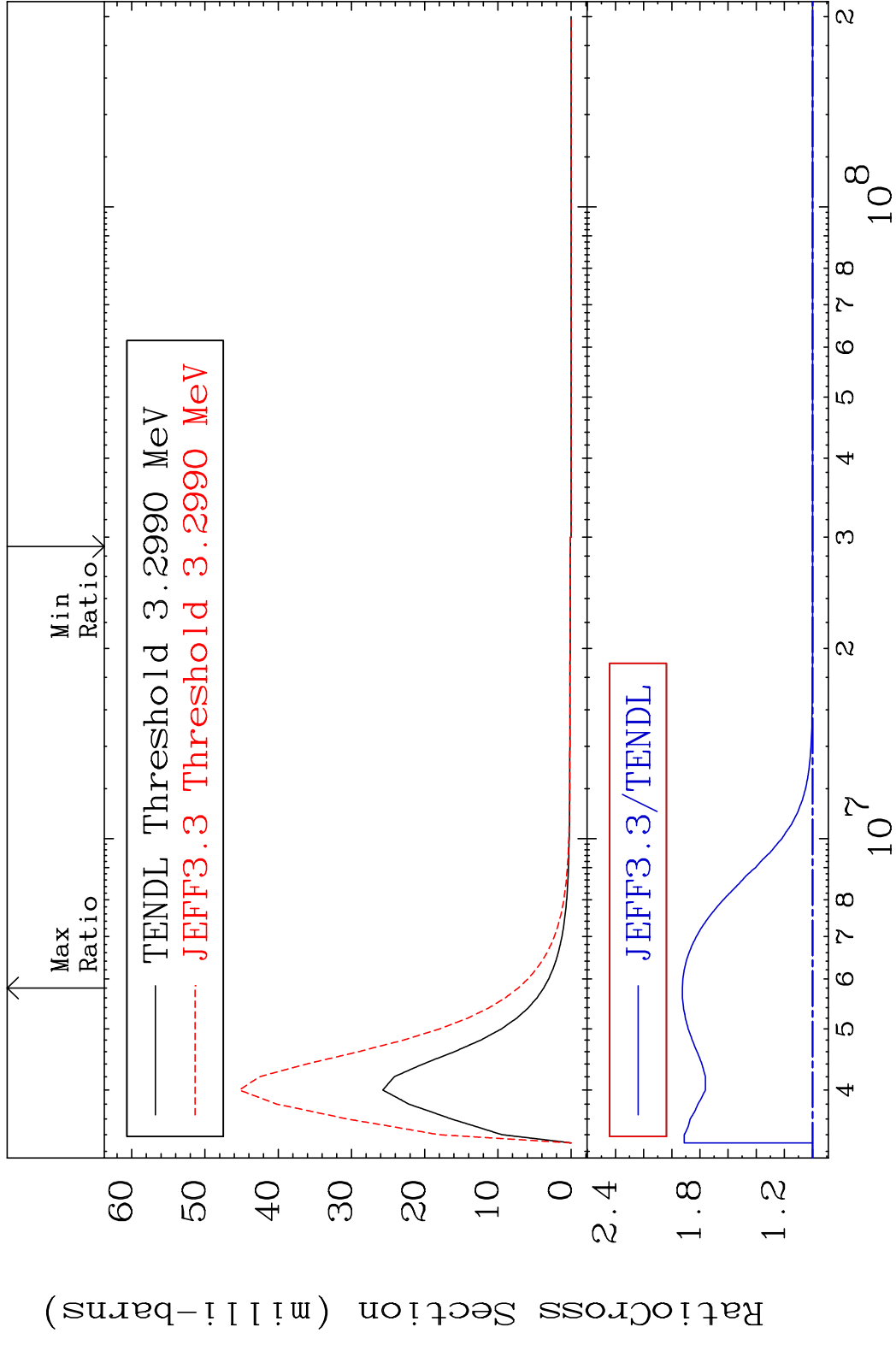
Incident Energy (eV)

29-Cu-67

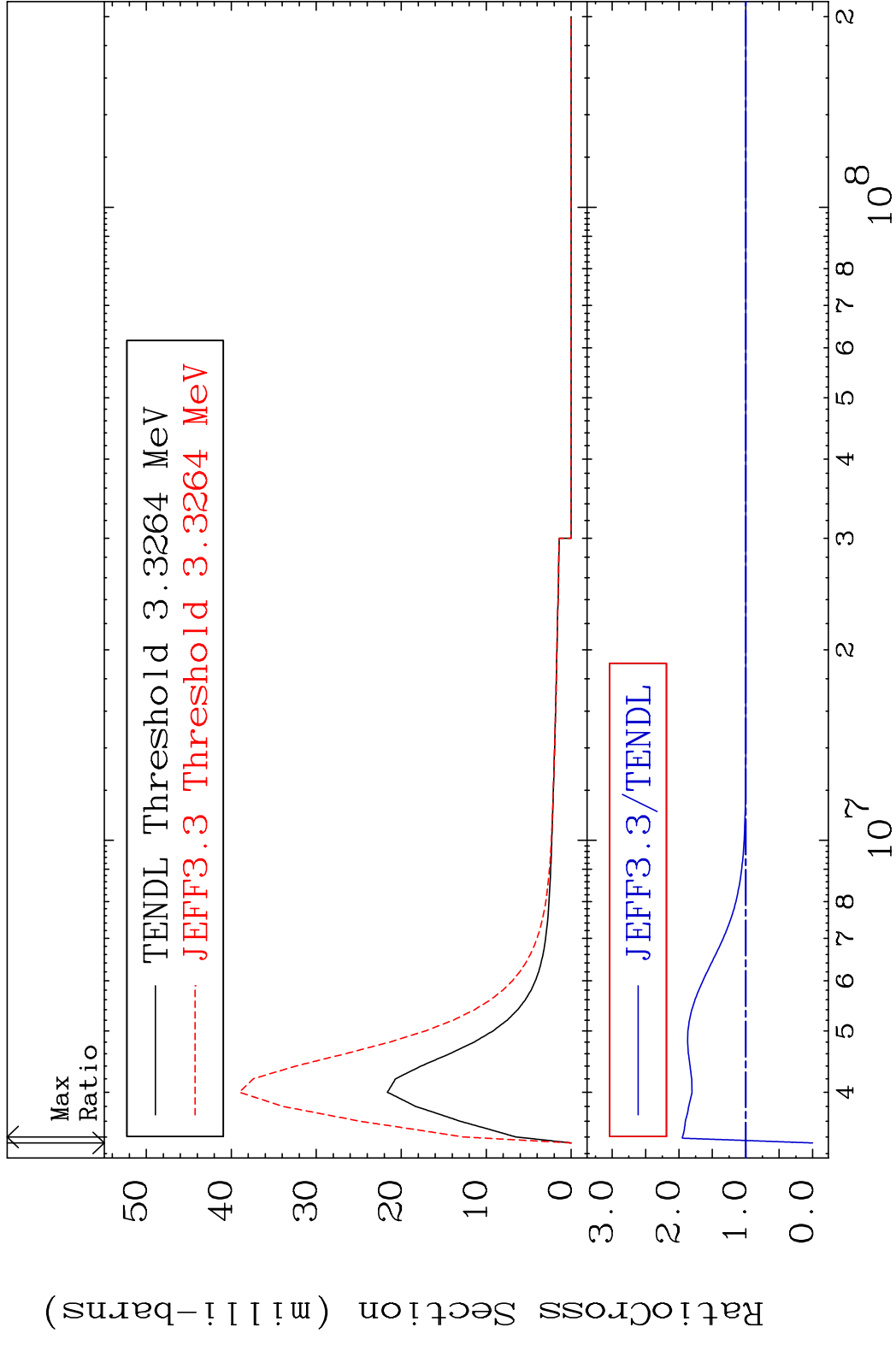
MAT 2937      MT= 67 (n,n') Level      29-Cu-67  
 Cross Section    -100.0 To 1.800 %



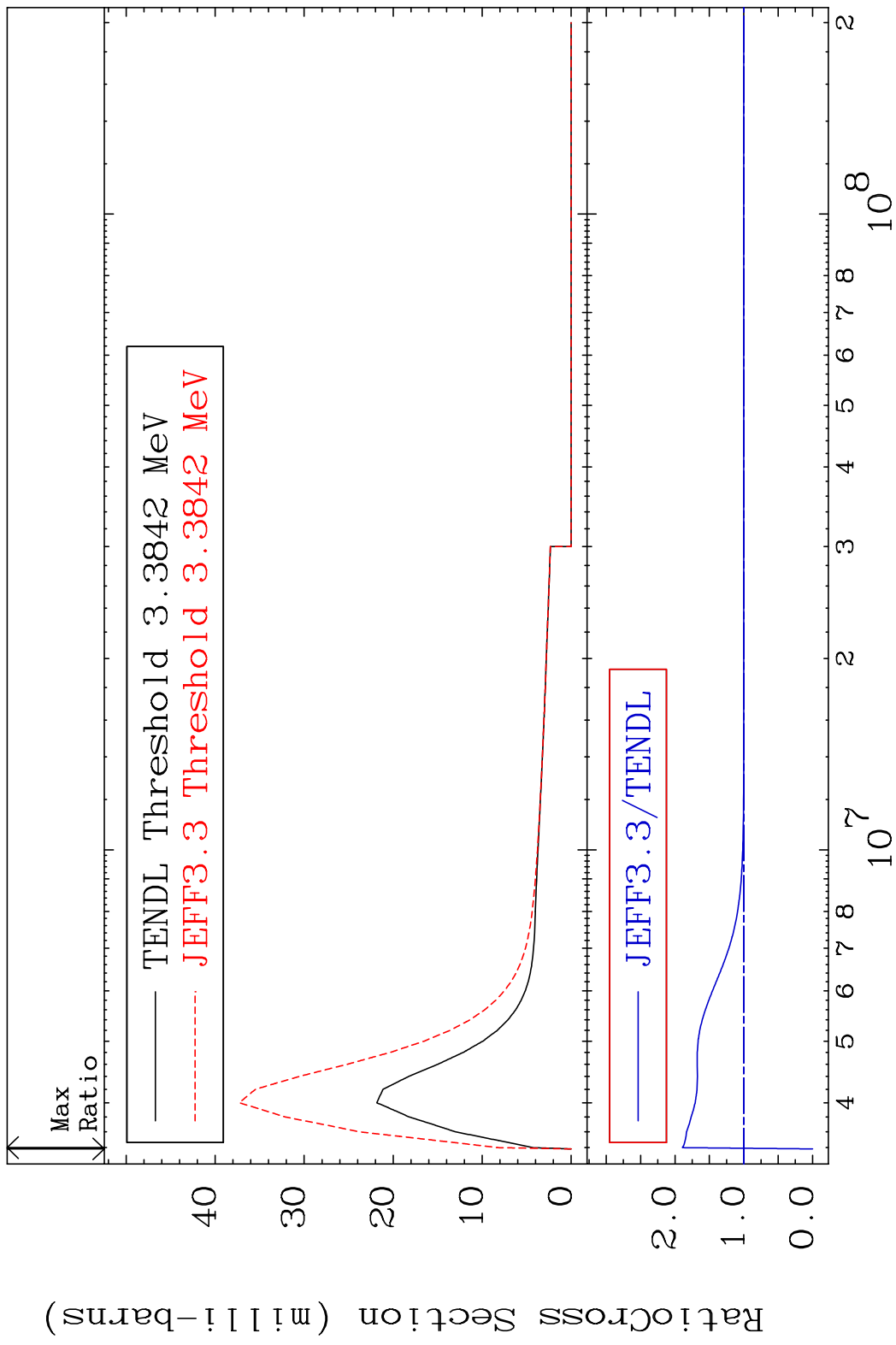
MAT 2937 MT= 68 (n,n') Level 29-Cu-67  
 Cross Section 0.000 To 92.50 %



MAT 2937      MT= 69 (n, n') Level      29-Cu-67  
 Cross Section    -100.0 To 94.95 %

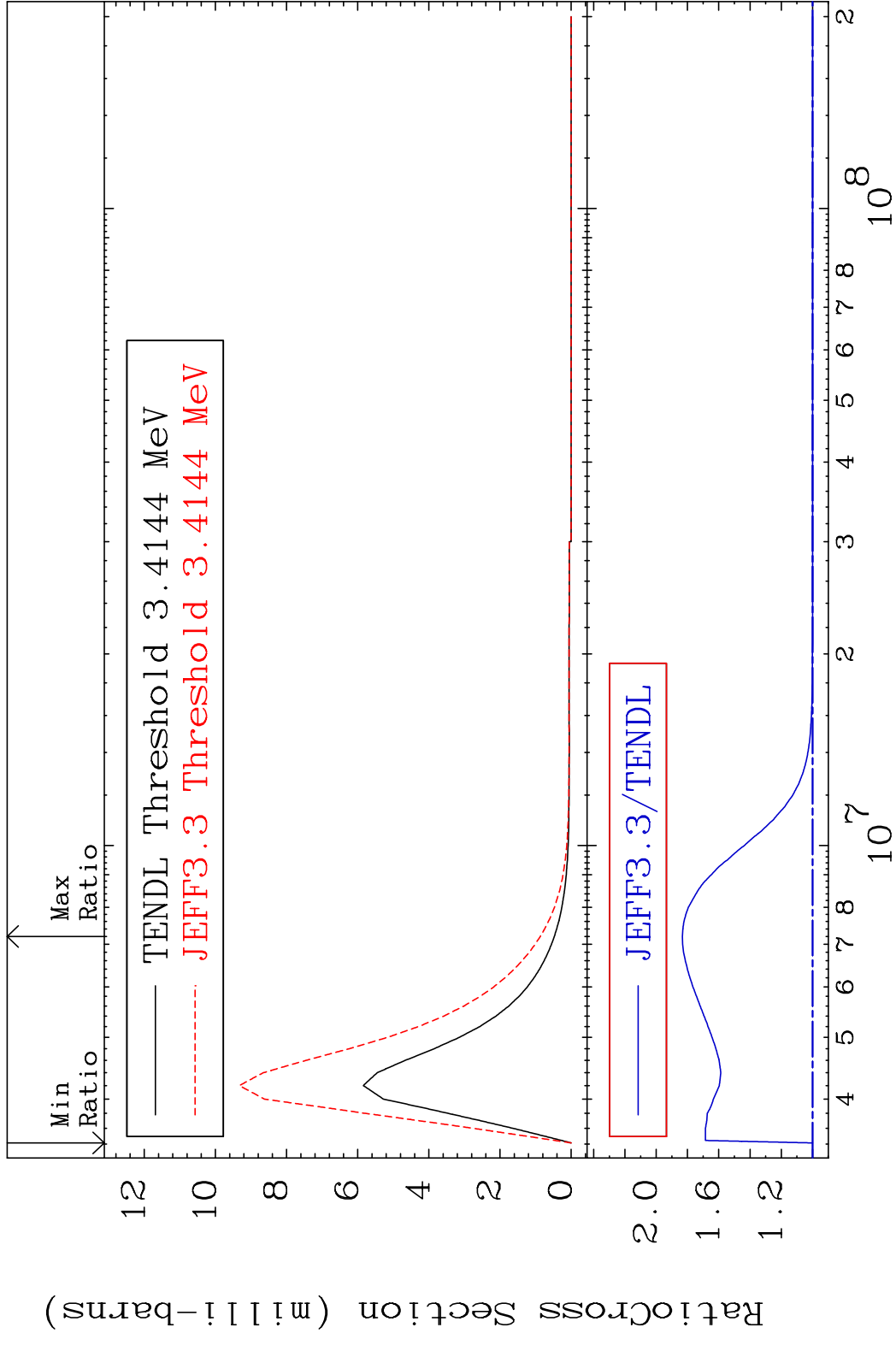


MAT 2937 MT= 70 (n, n') Level 29-Cu-67  
 Cross Section -100.0 To 89.30 %



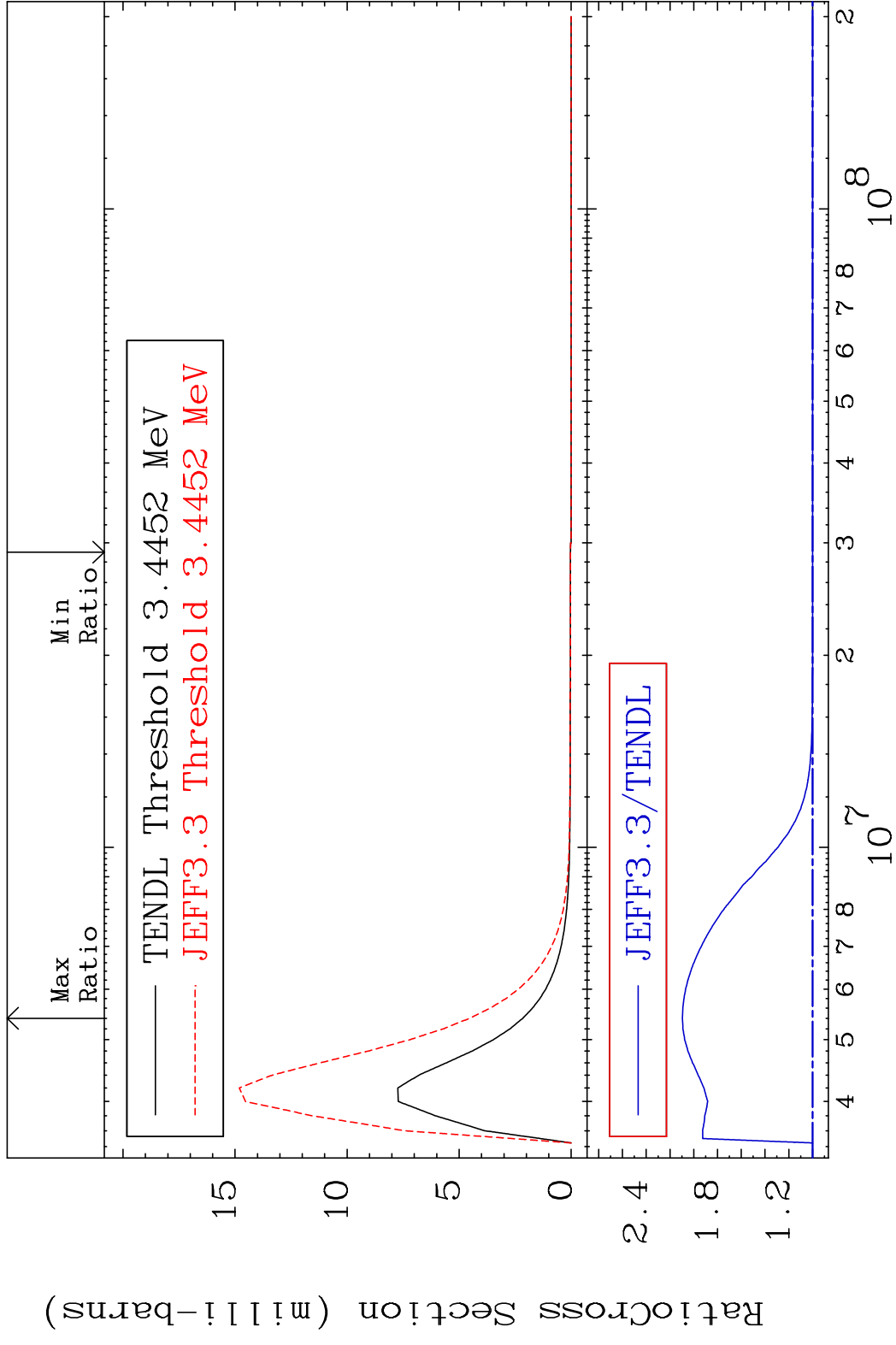


MAT 2937 MT= 71 (n, n') Level 29-Cu-67  
 Cross Section 0.000 To 83.29 %

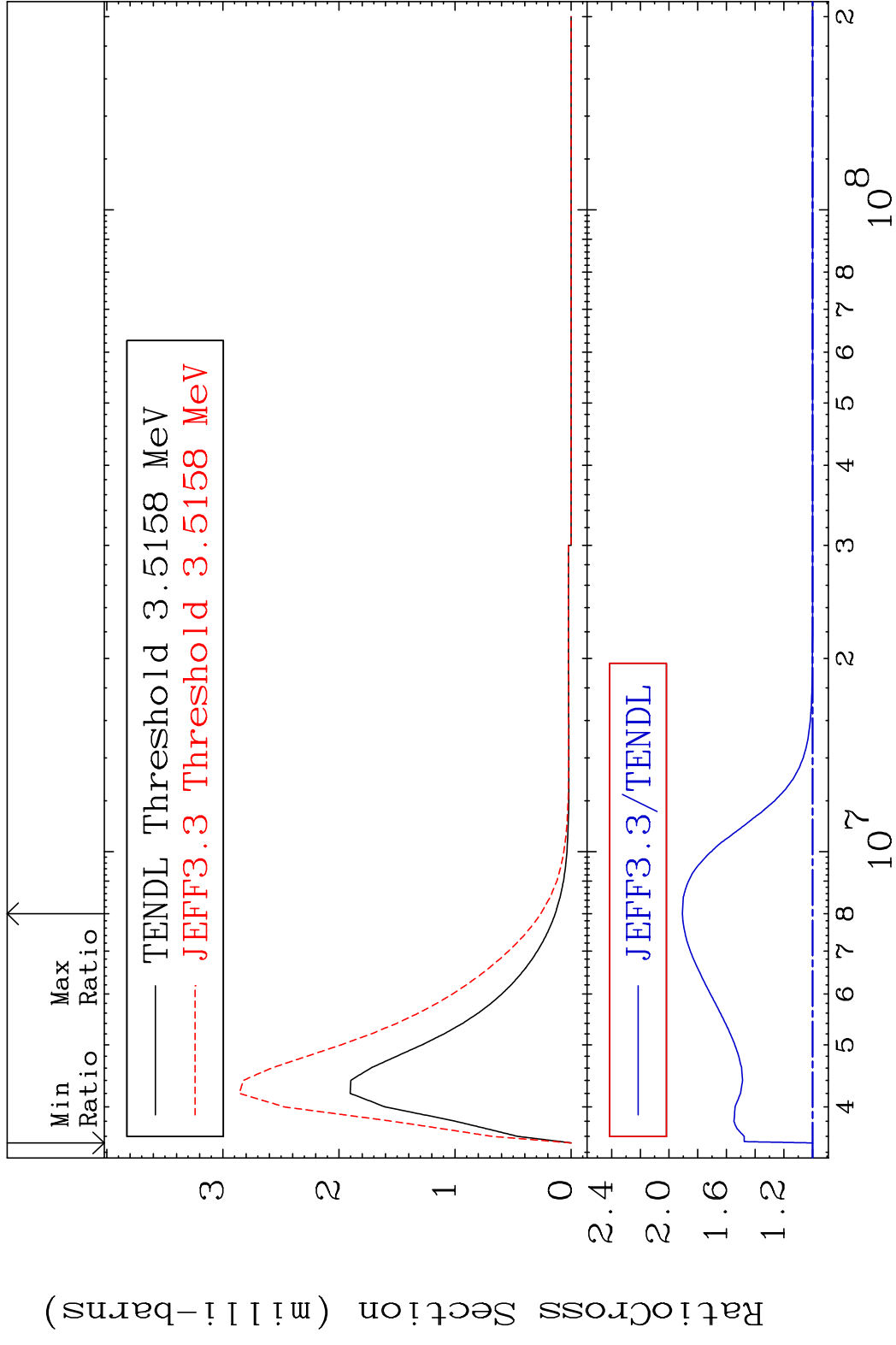


40 Incident Energy (eV) 29-Cu-67

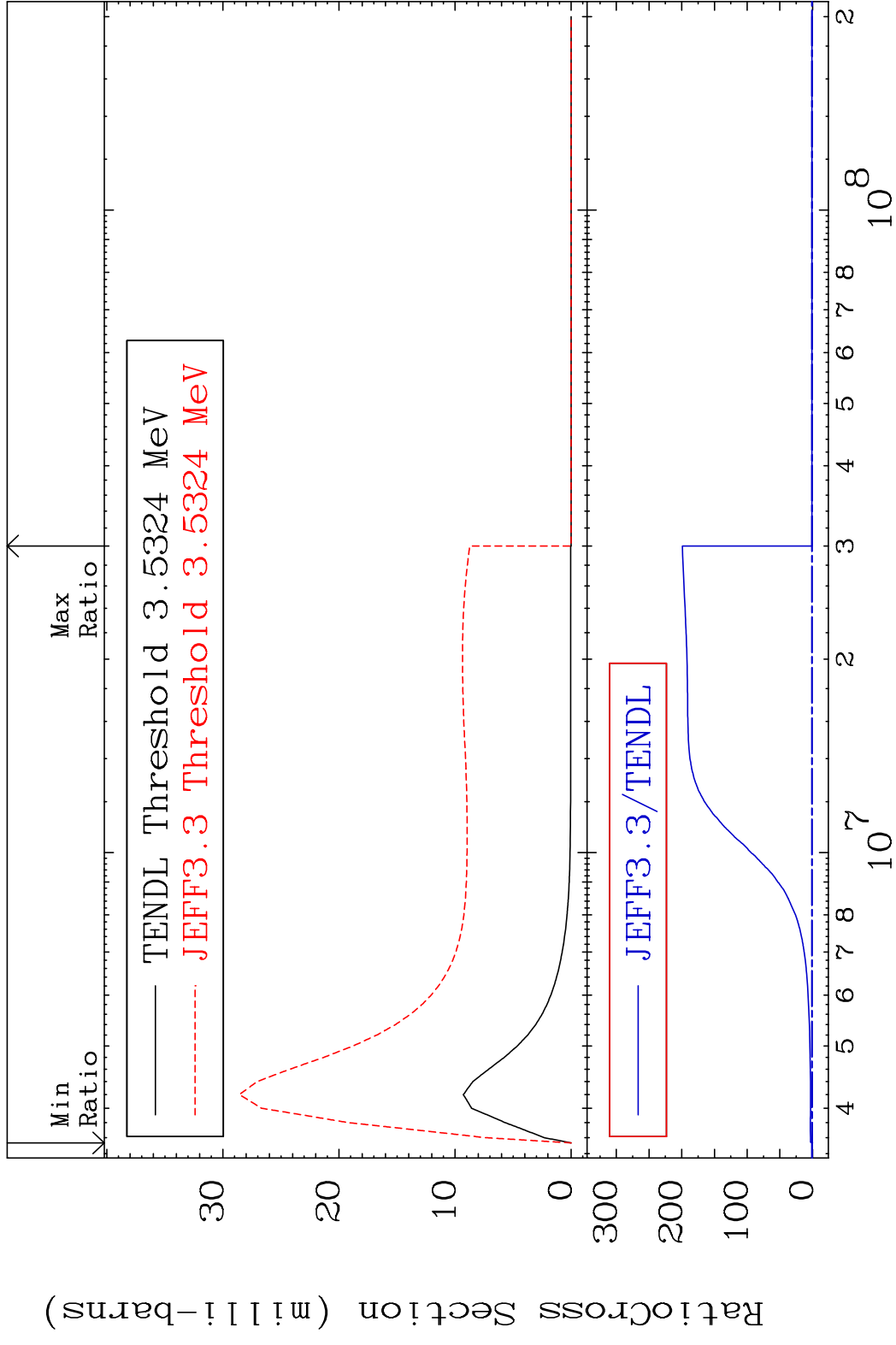
MAT 2937 MT= 72 (n, n') Level 29-Cu-67  
 Cross Section 0.000 To 109.6 %



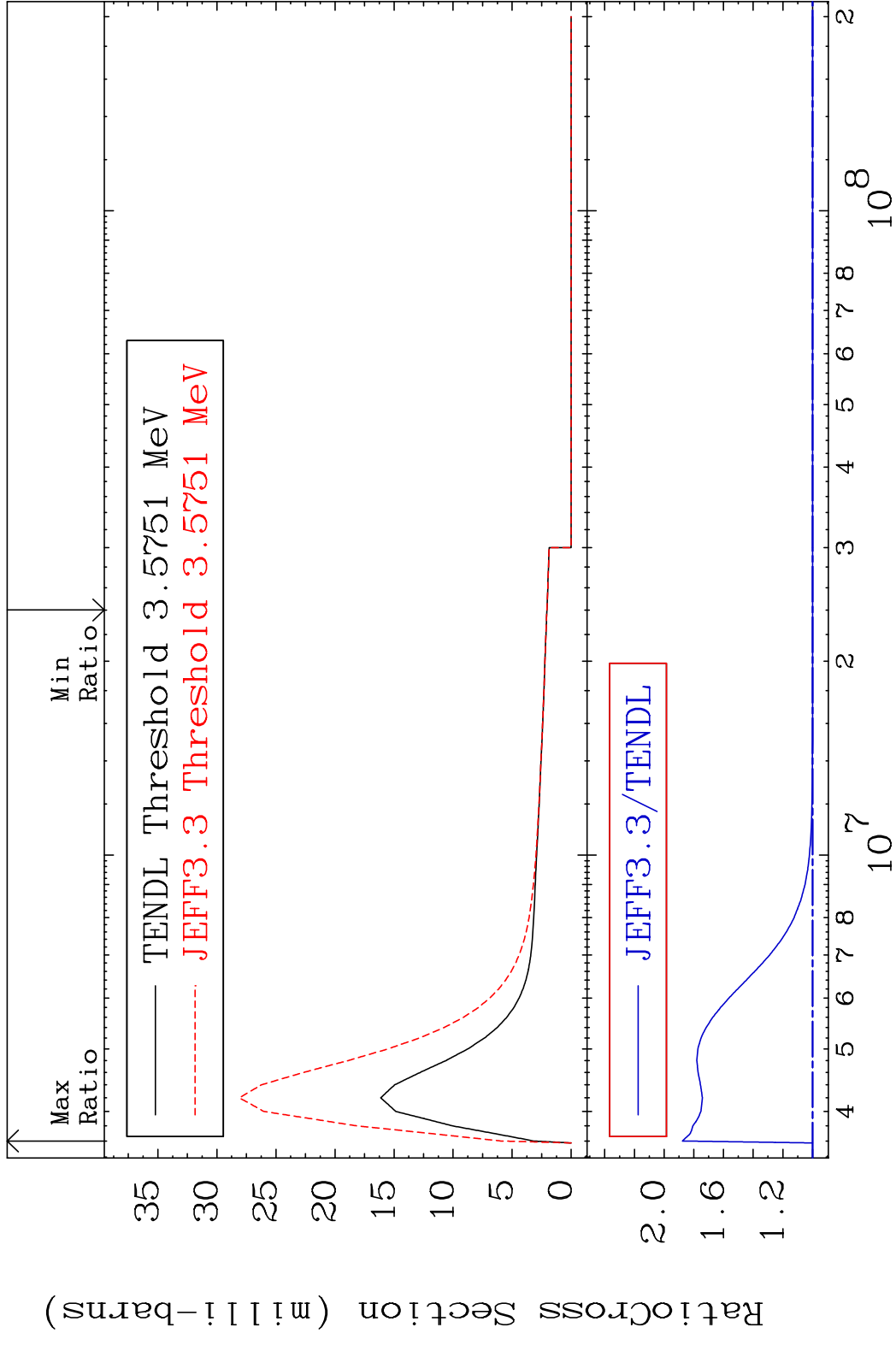
MAT 2937 MT= 73 (n, n') Level 29-Cu-67  
 Cross Section 0.000 To 90.71 %



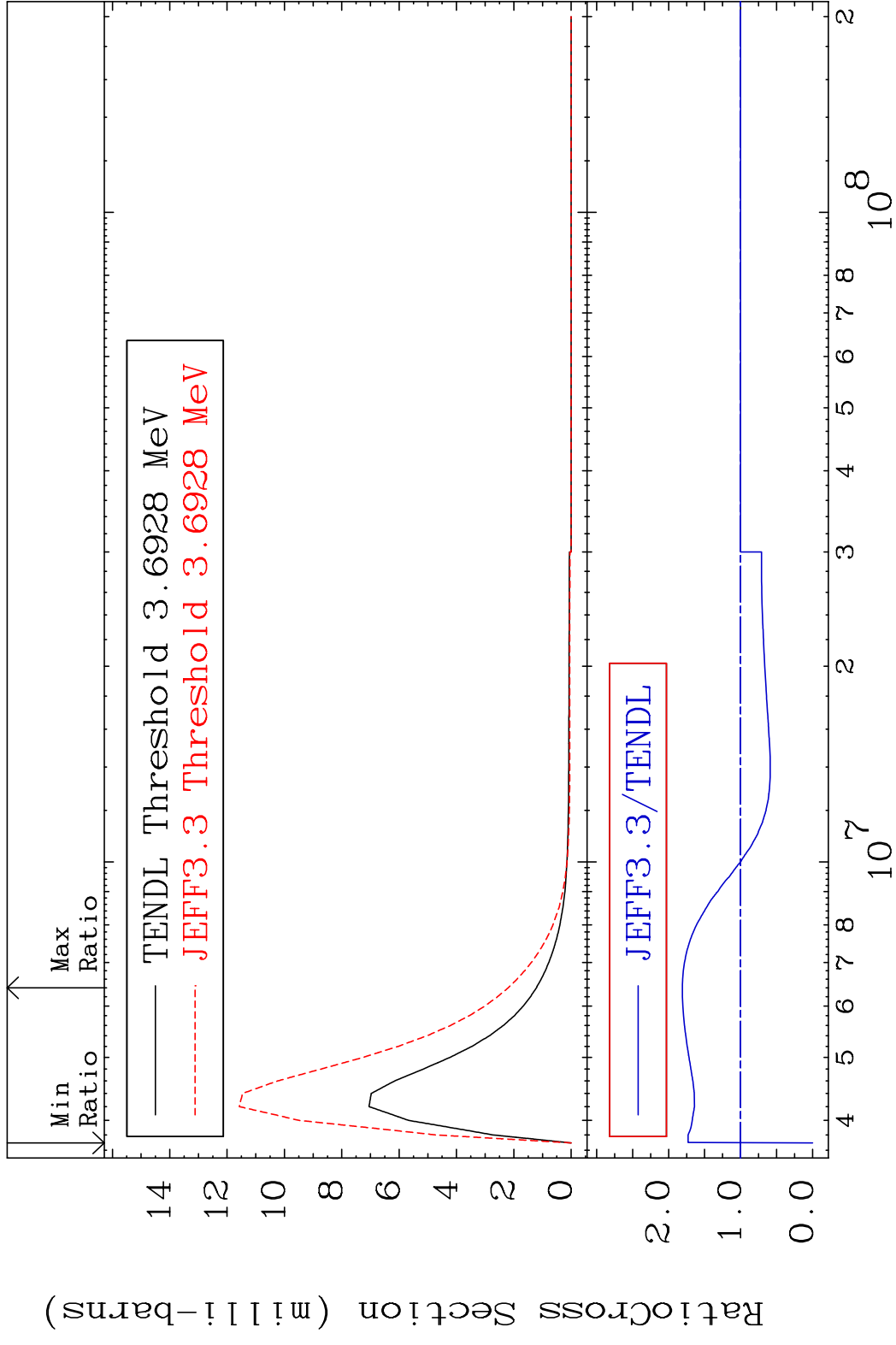
MAT 2937 MT= 74 (n,n') Level 29-Cu-67  
 Cross Section -100.0 To 9999. %



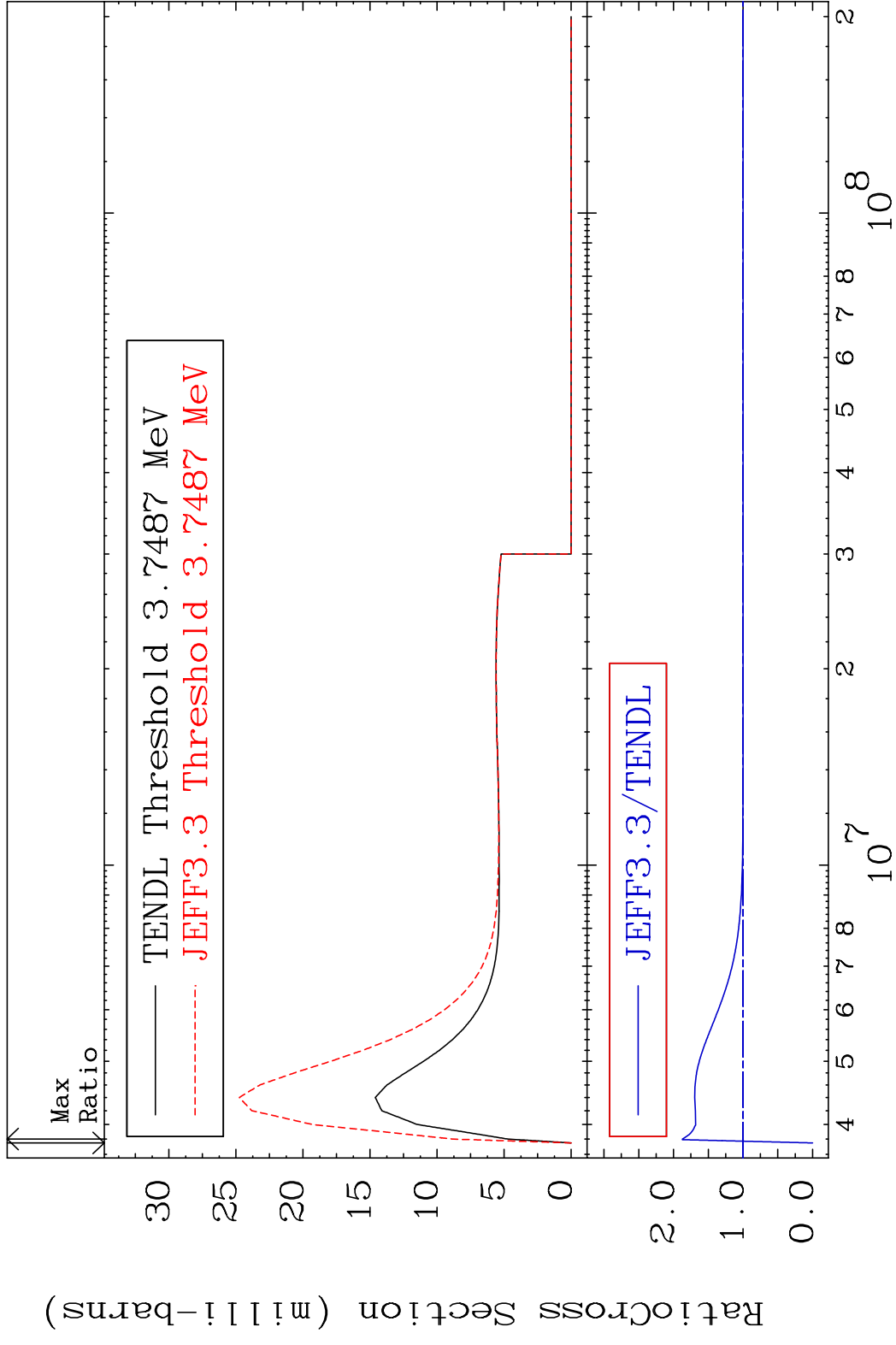
MAT 2937 MT= 75 (n,n') Level 29-Cu-67  
 Cross Section 0.000 To 87.71 %



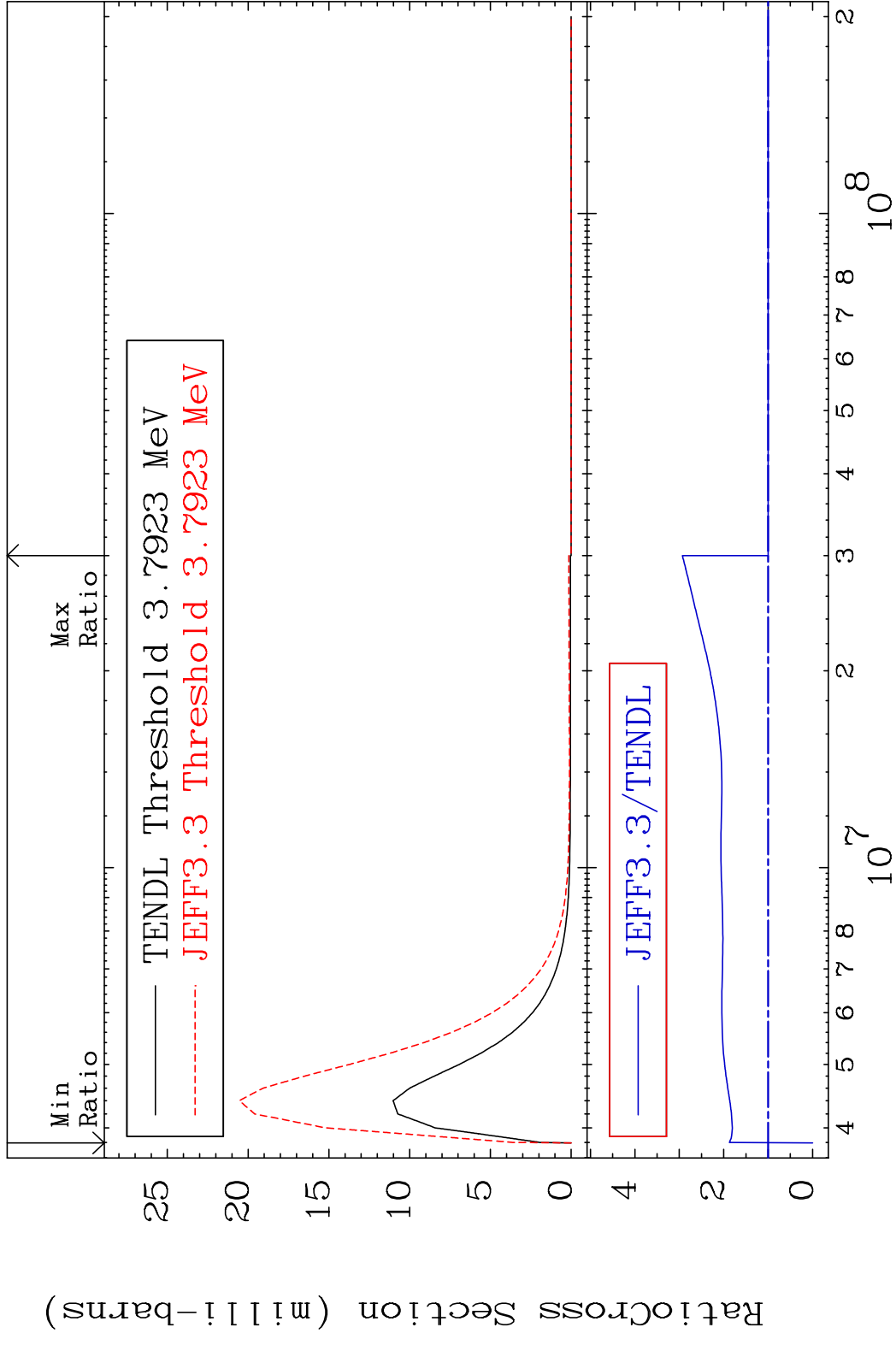
MAT 2937 MT= 76 (n, n') Level 29-Cu-67  
 Cross Section -100.0 To 80.95 %



MAT 2937      MT= 77 (n,n') Level      29-Cu-67  
 Cross Section    -100.0 To 87.28 %



MAT 2937 MT= 78 (n, n') Level 29-Cu-67  
 Cross Section -100.0 To 193.1 %



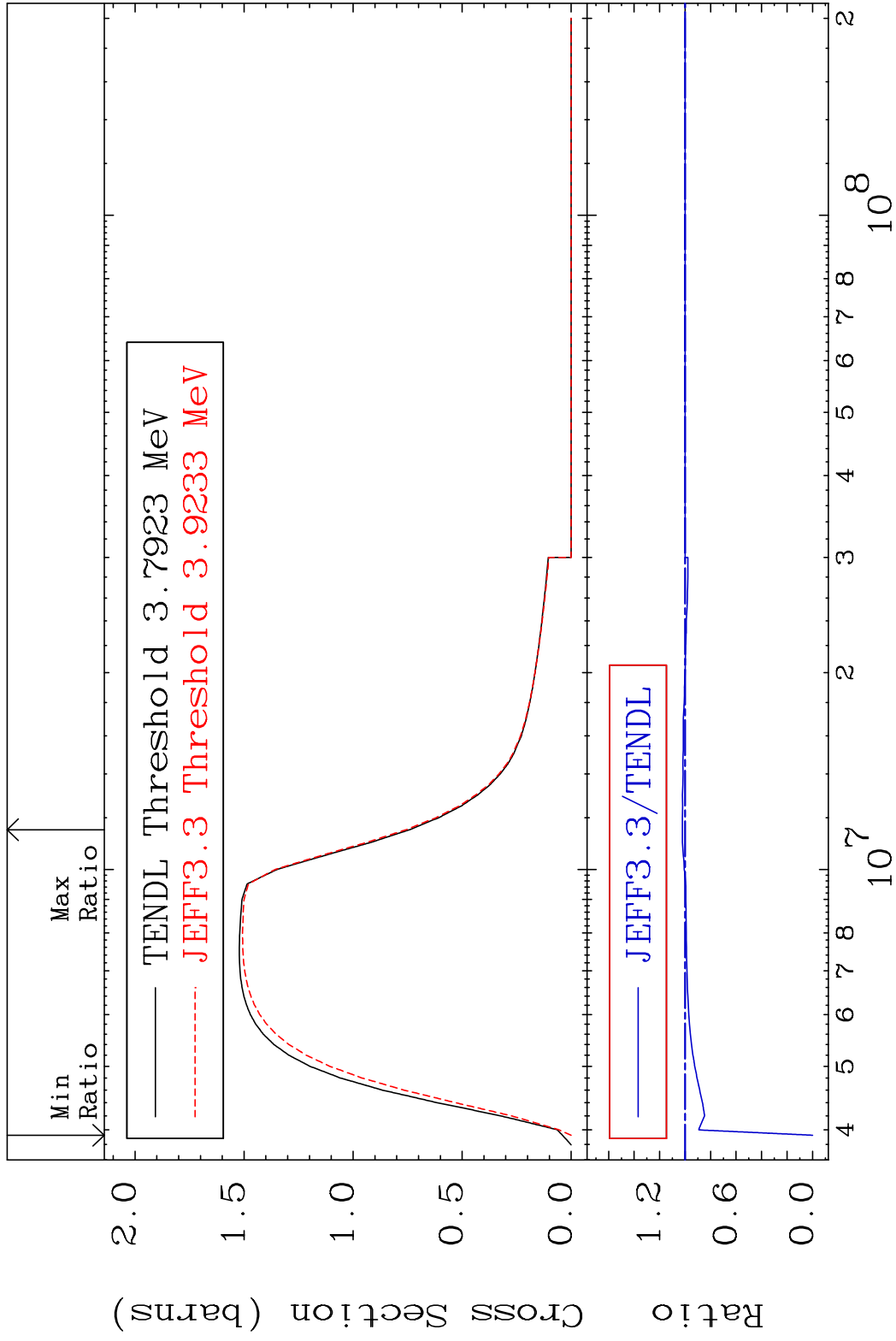


MAT 2937

(n,n') Continuum

<sup>29</sup>Cu-67

Cross Section -100.0 To 2.167 %



48

Incident Energy (eV)

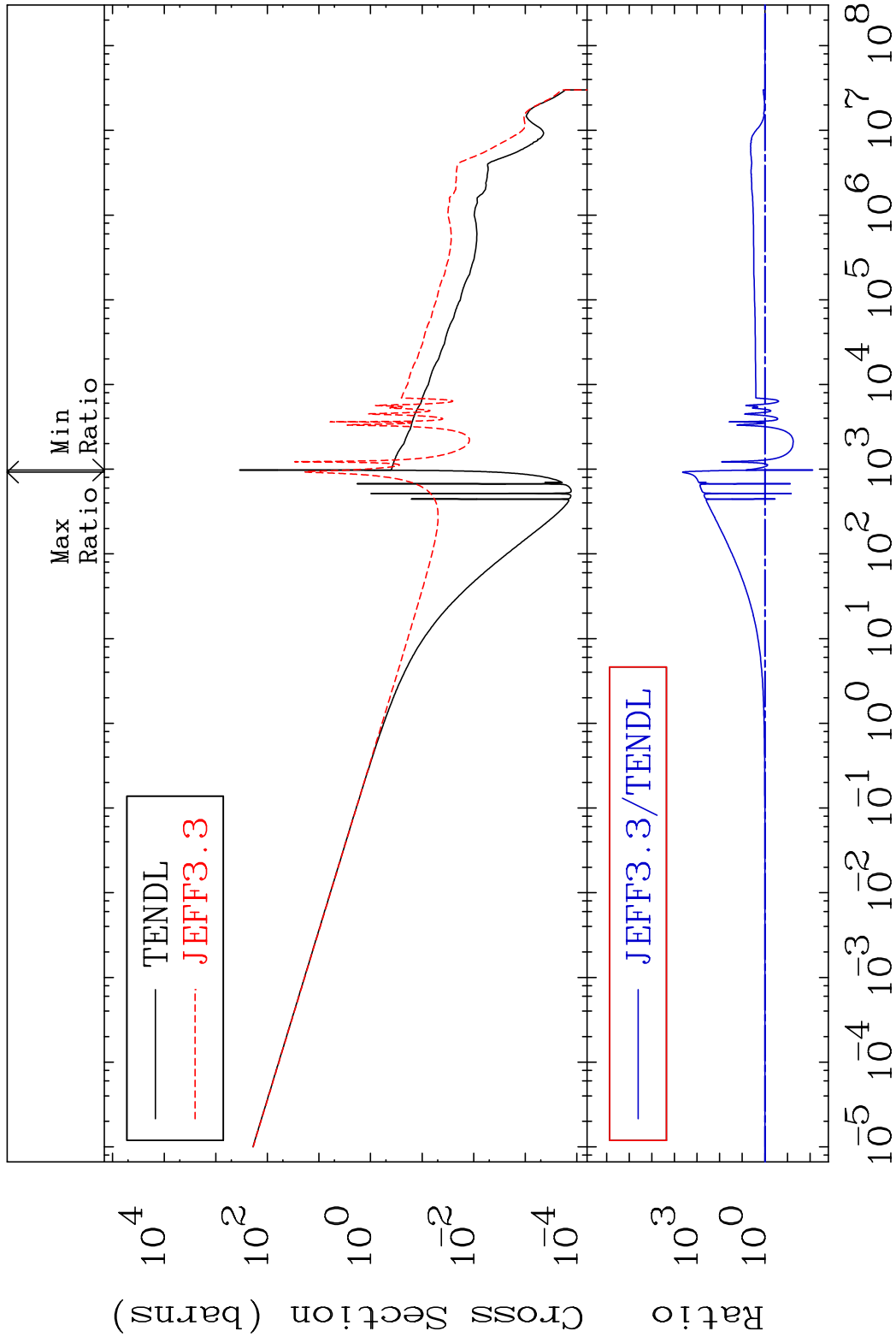
<sup>29</sup>Cu-67

MAT 2937

(n,  $\gamma$ )

29-Cu-67

Cross Section -99.22 To 9999. %



49

Incident Energy (eV)

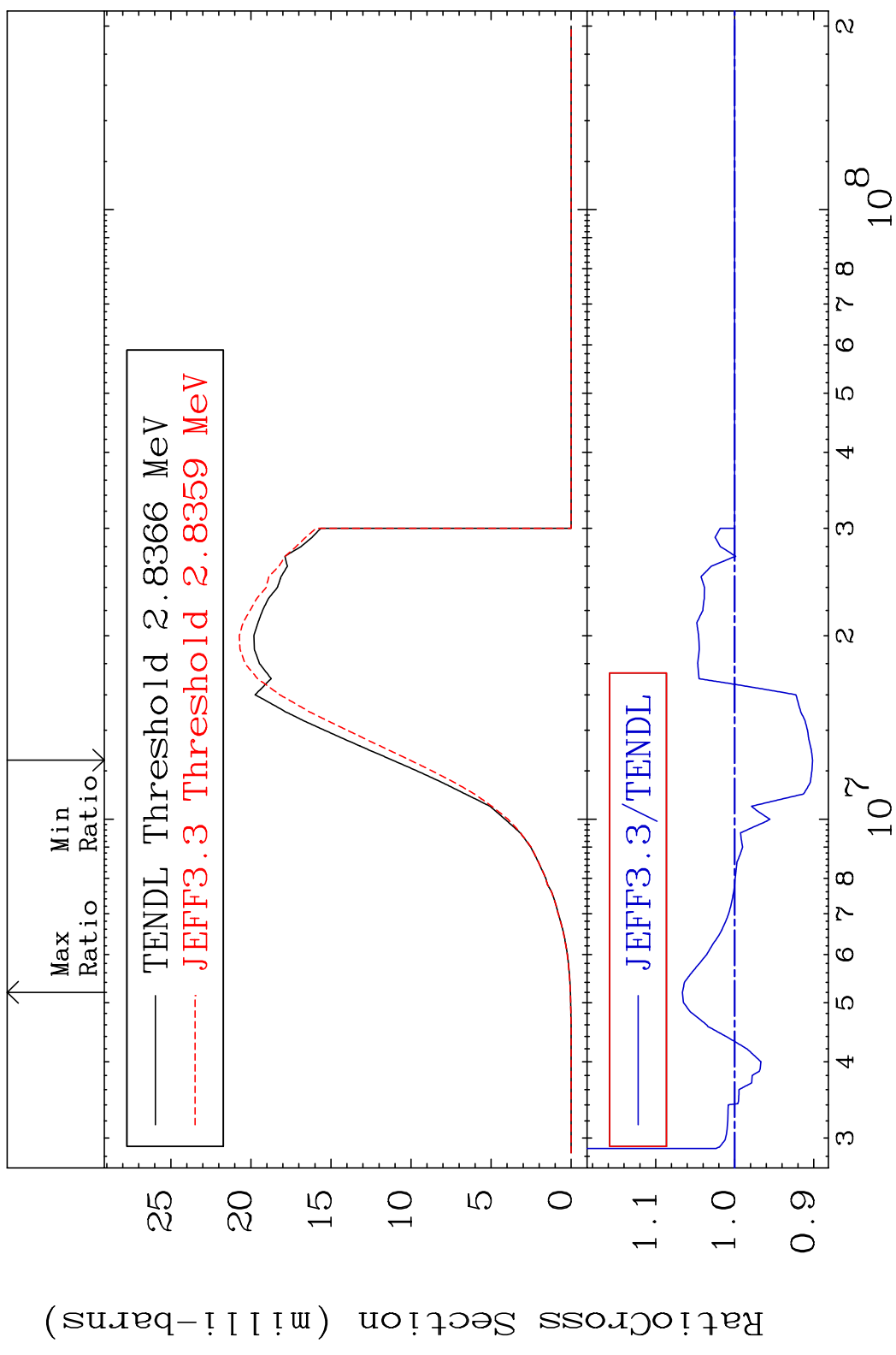
29-Cu-67

MAT 2937

(n, p)

29-Cu-67

Cross Section -9.847 To 6.624 %

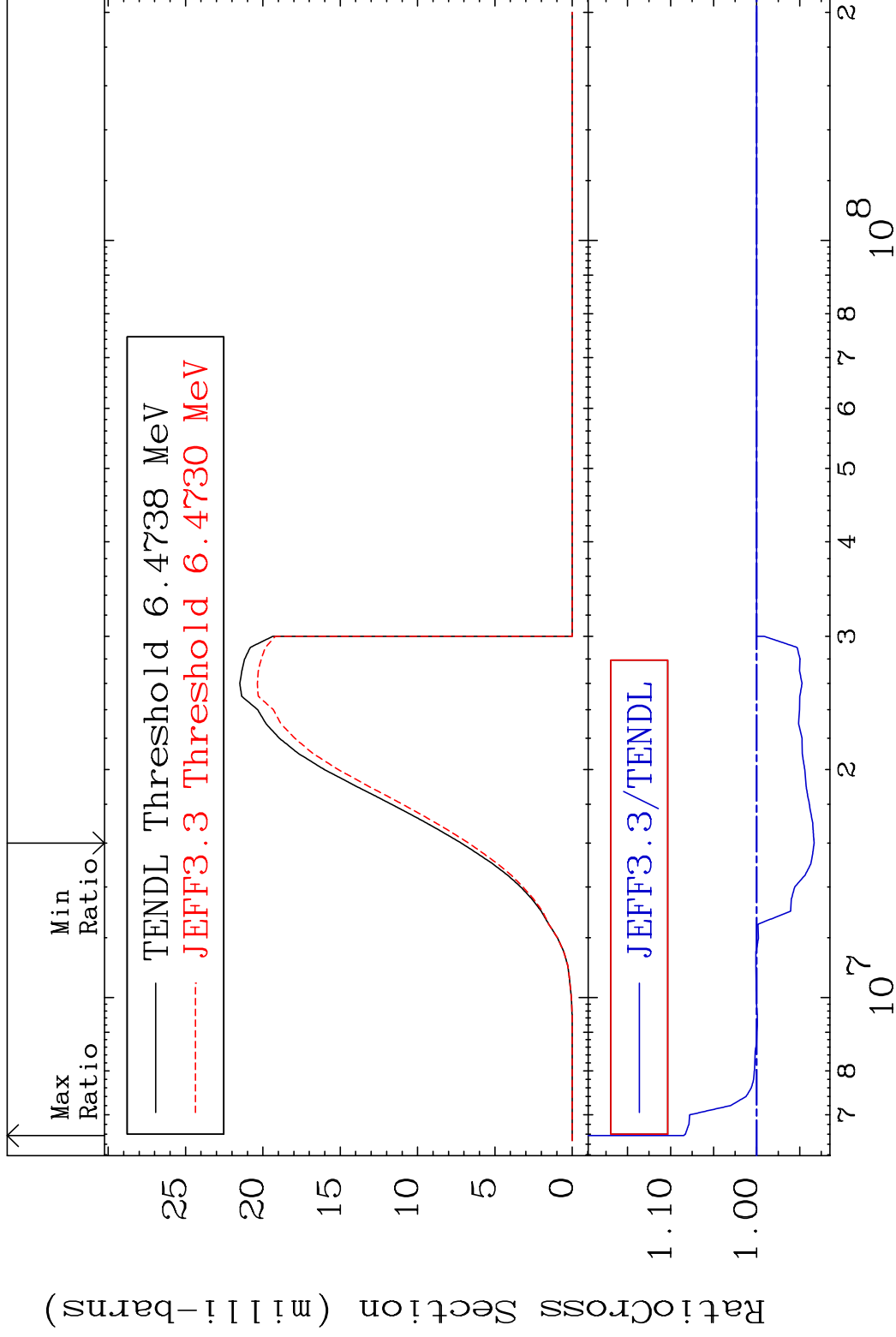


MAT 2937

(n, d)

29-Cu-67

Cross Section -6.672 To 8.482 %



51

Incident Energy (eV)

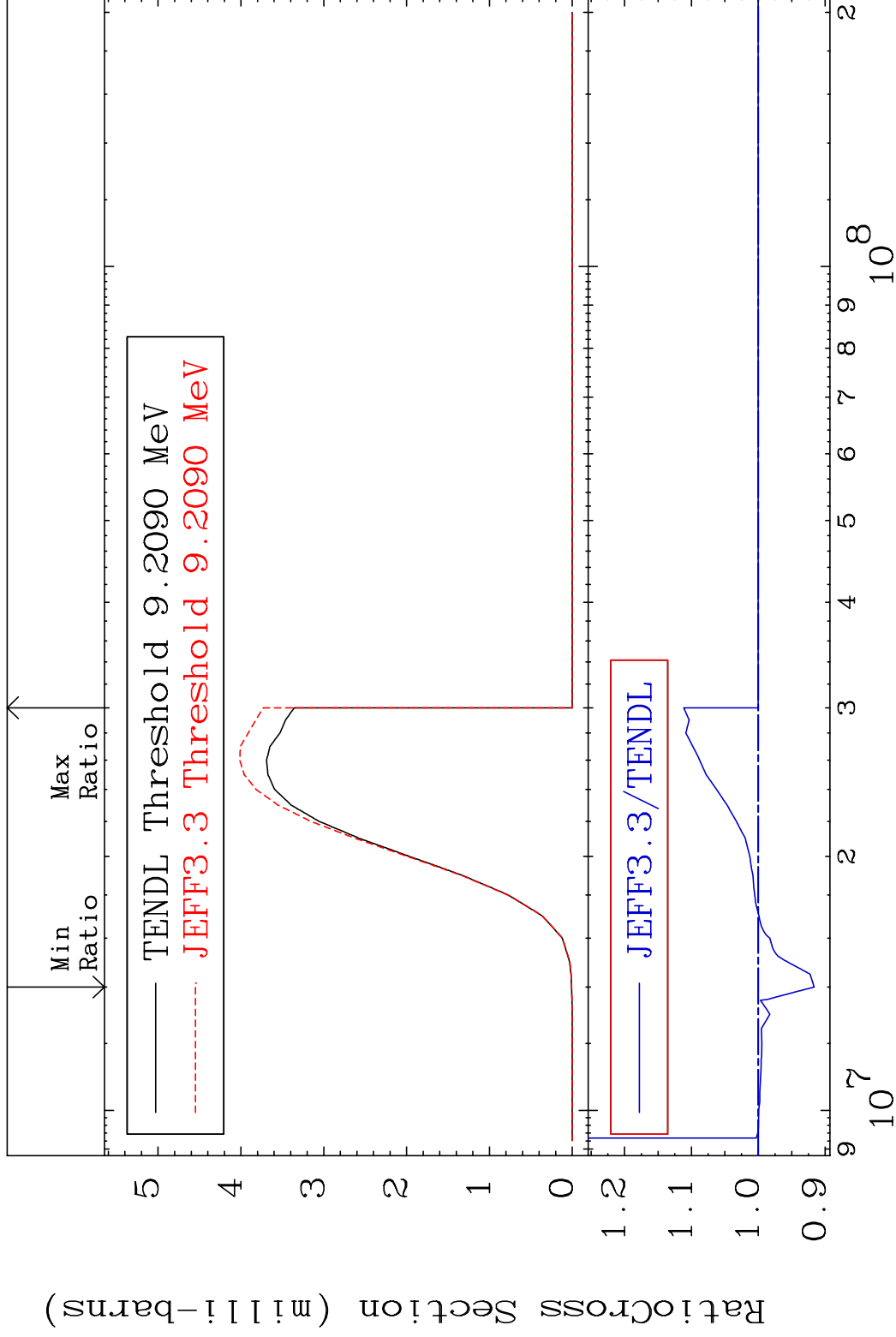
29-Cu-67

MAT 2937

(n, t)

29-Cu-67

Cross Section -8.351 To 11.17 %



52

Incident Energy (eV)

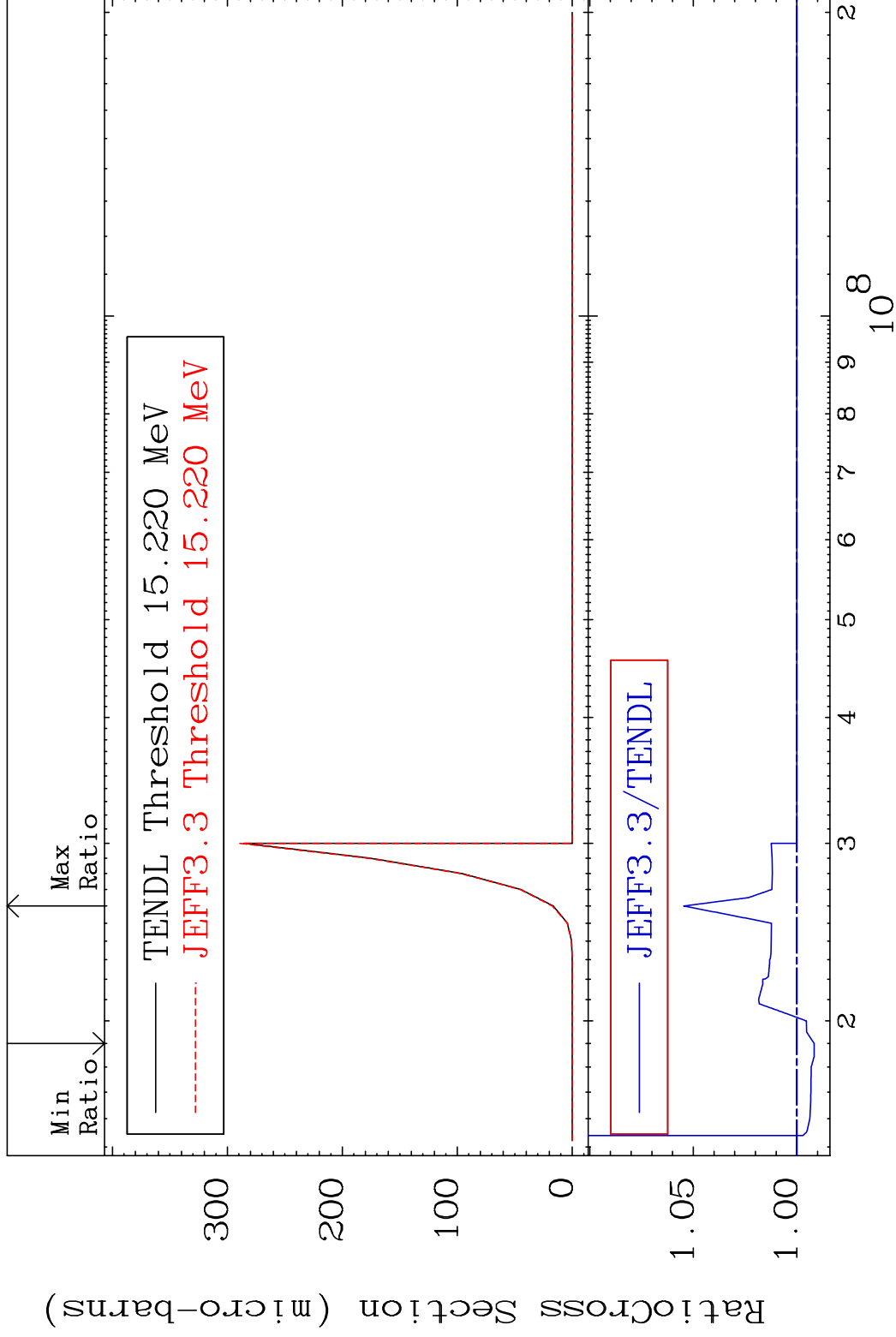
29-Cu-67

MAT 2937

(n, He-3)

29-Cu-67

Cross Section -0.832 To 5.464 %



53

Incident Energy (eV)

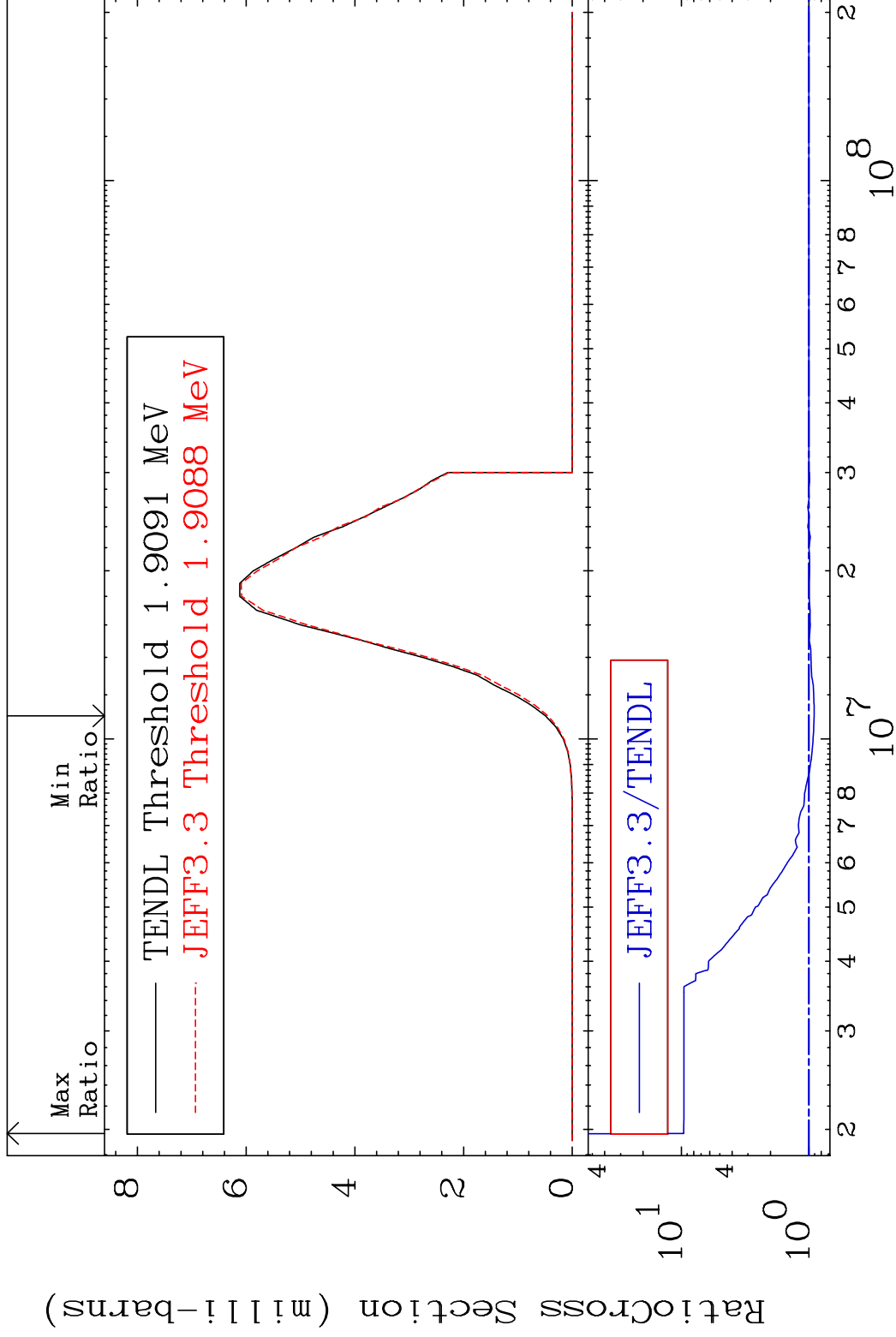
29-Cu-67

MAT 2937

(n,  $\alpha$ )

29-Cu-67

Cross Section -9.086 To 859.2 %



54

Incident Energy (eV)

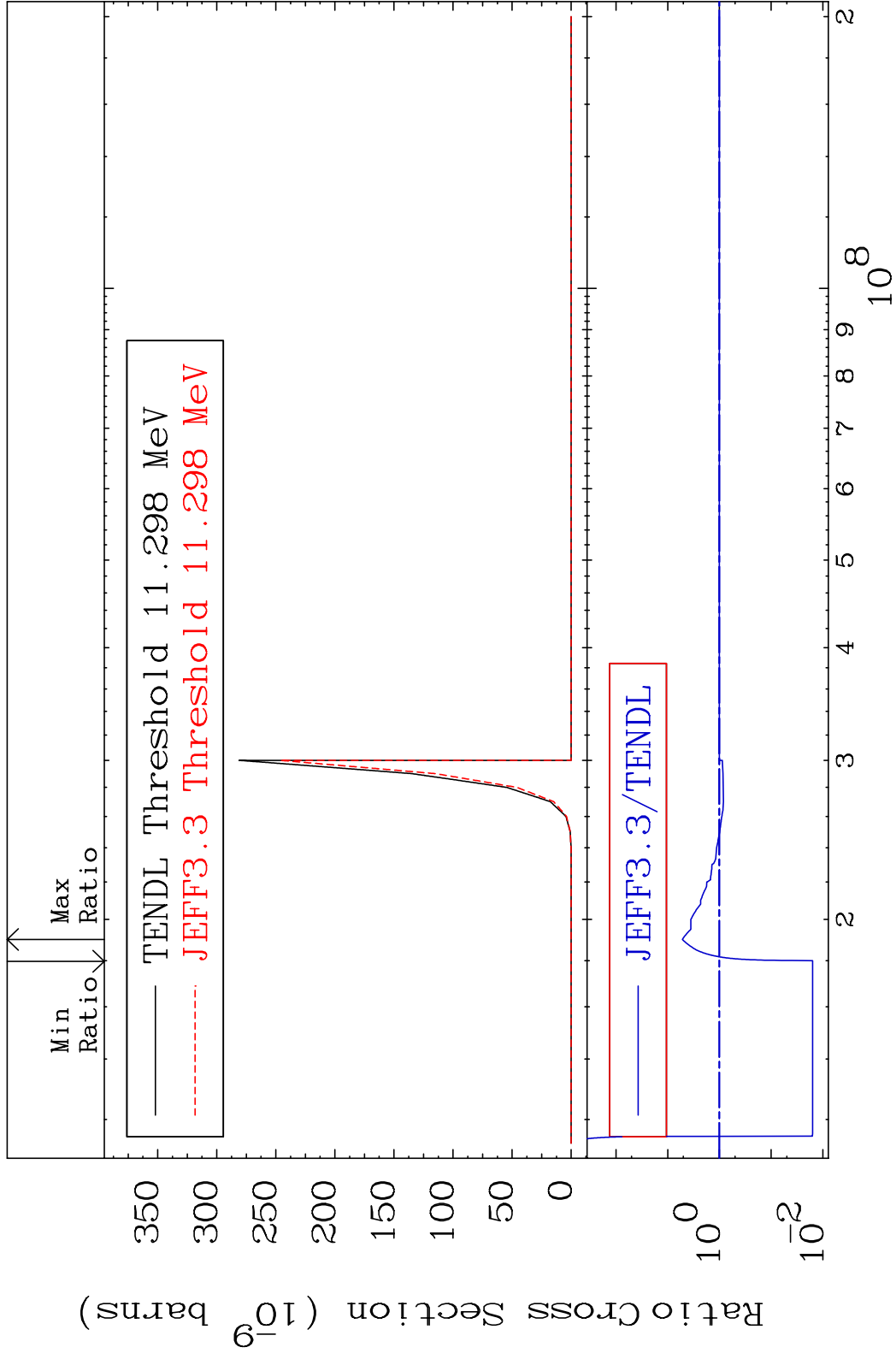
29-Cu-67

MAT 2937

(n,2α)

29-Cu-67

Cross Section -98.41 To 420.7 %



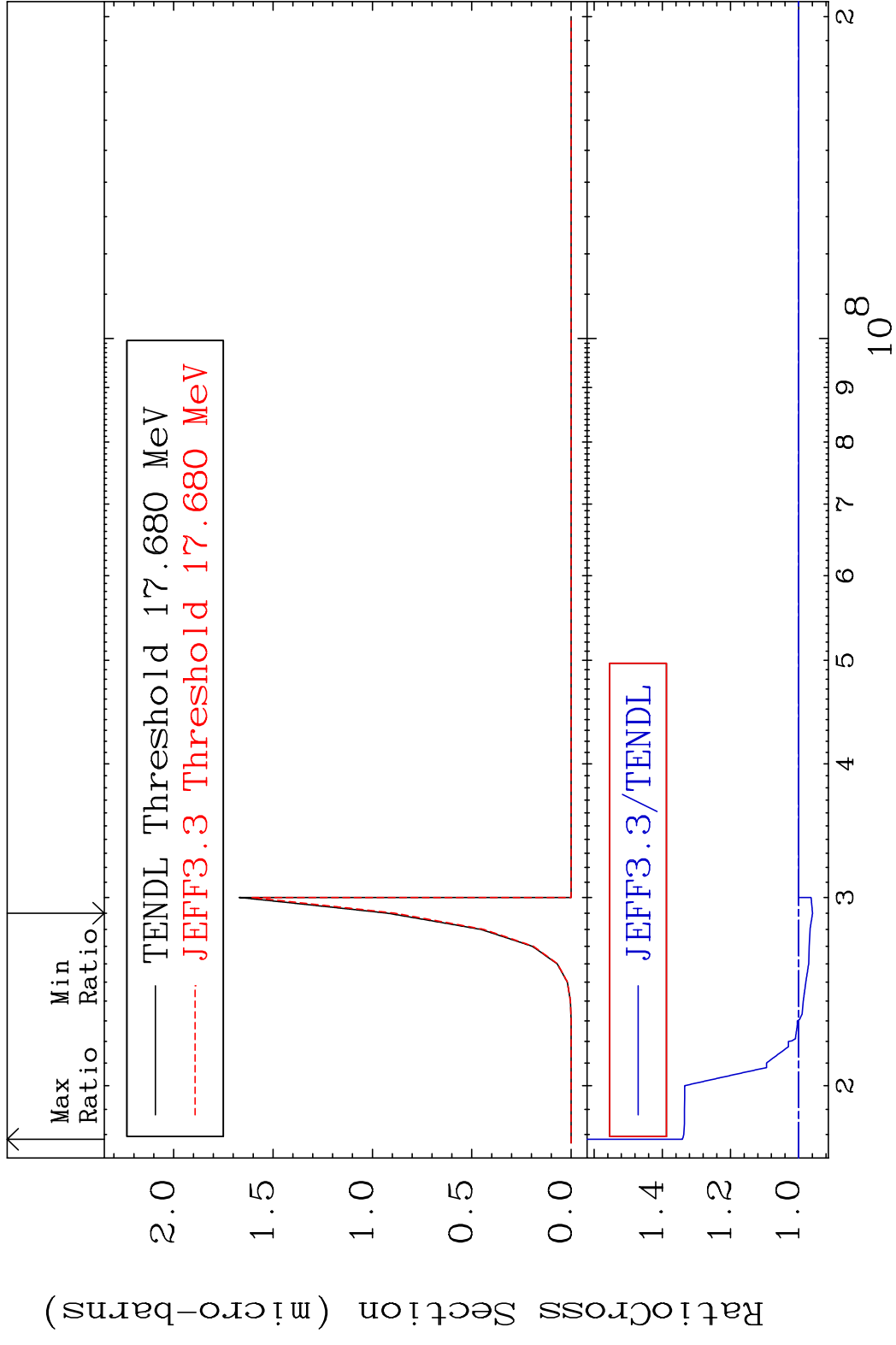


MAT 2937

(n,2p)

29-Cu-67

Cross Section -4.059 To 34.11 %

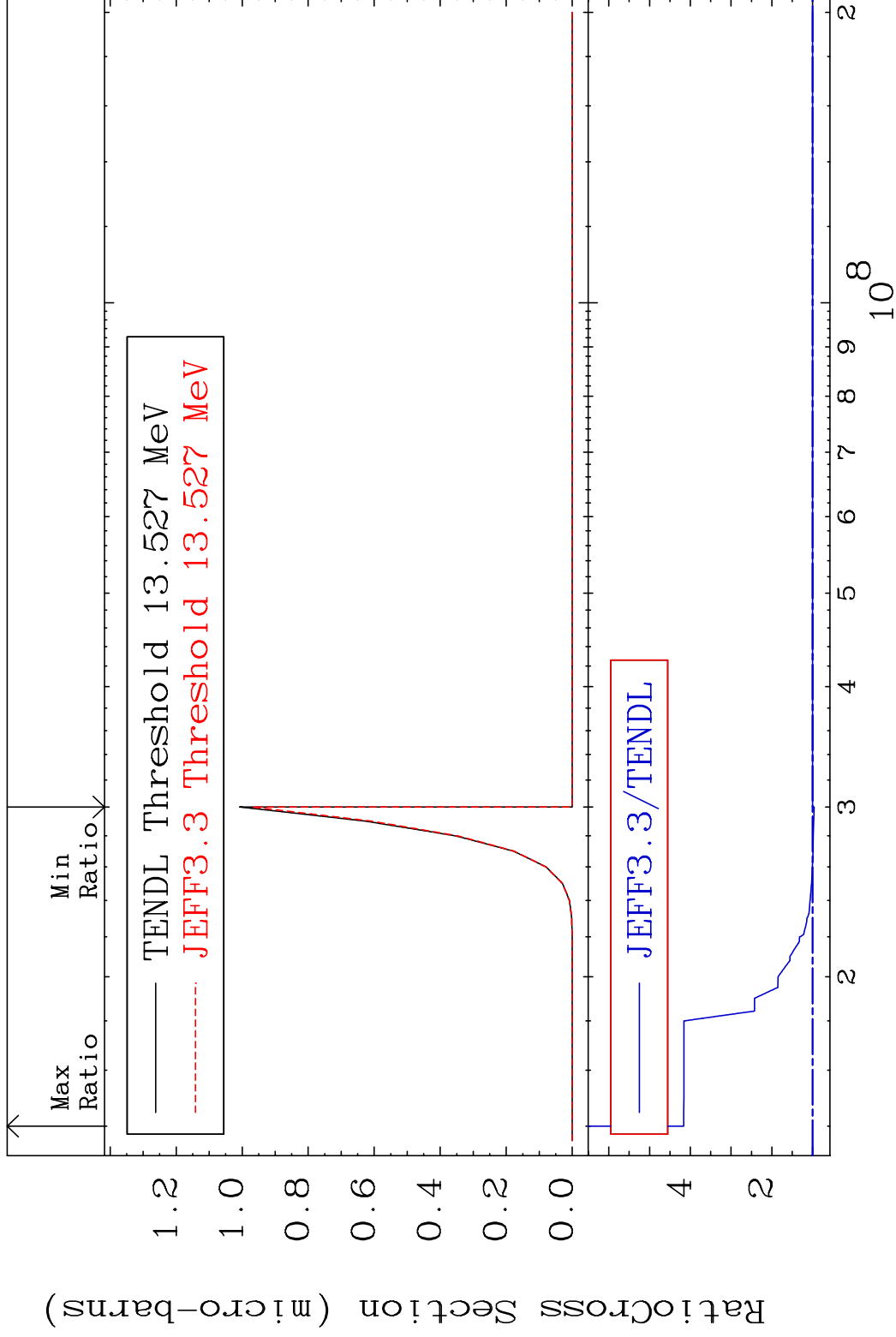


MAT 2937

(n,p)  $\alpha$

29-Cu-67

Cross Section -3.732 To 316.3 %



57

Incident Energy (eV)

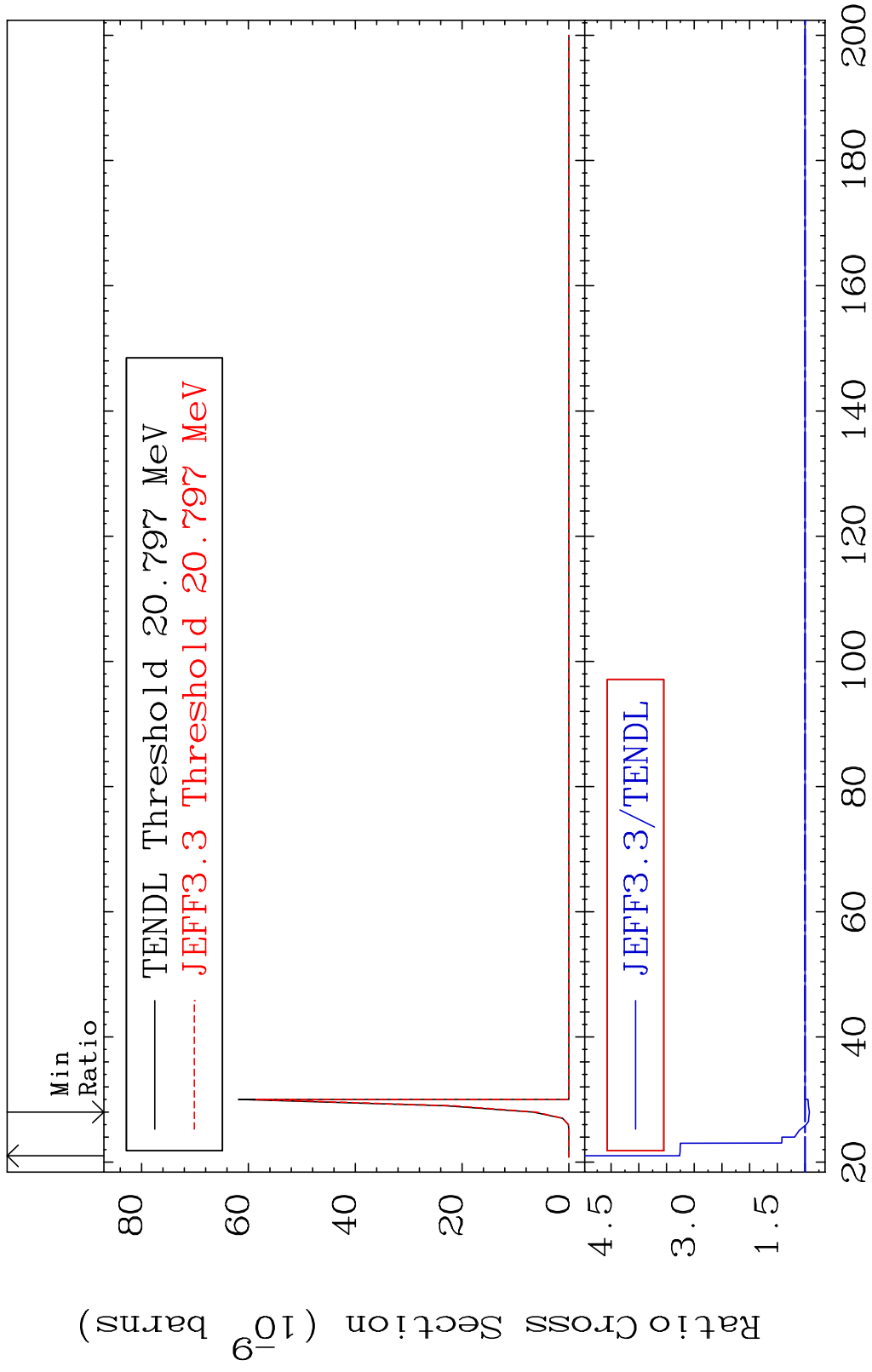
29-Cu-67

MAT 2937

(n,p) d

29-Cu-67

Cross Section -7.518 To 226.4 %

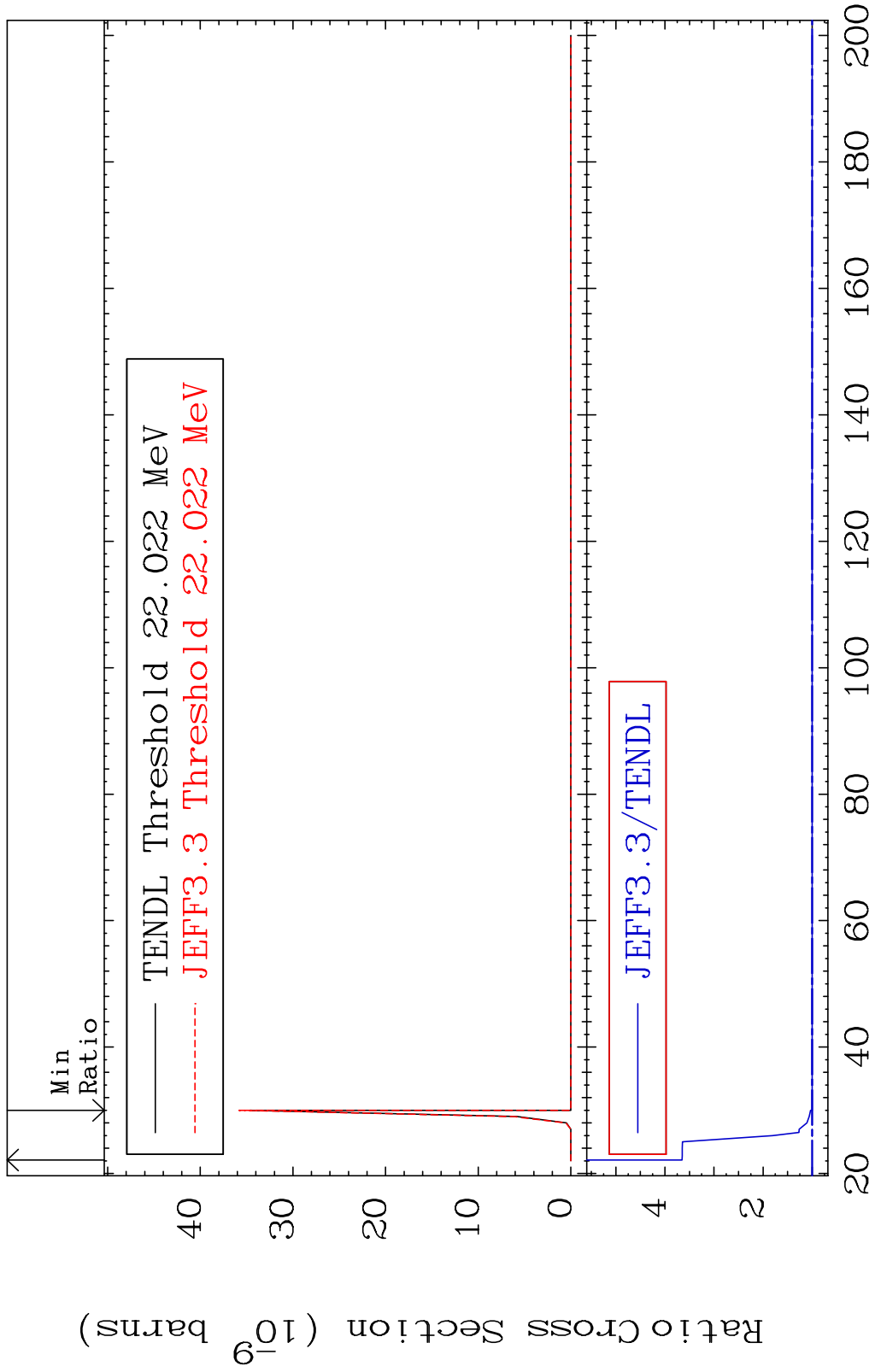


58

Incident Energy (MeV)

29-Cu-67

MAT 2937 (n,p) t 29-Cu-67  
 Cross Section 0.000 To 265.2 %

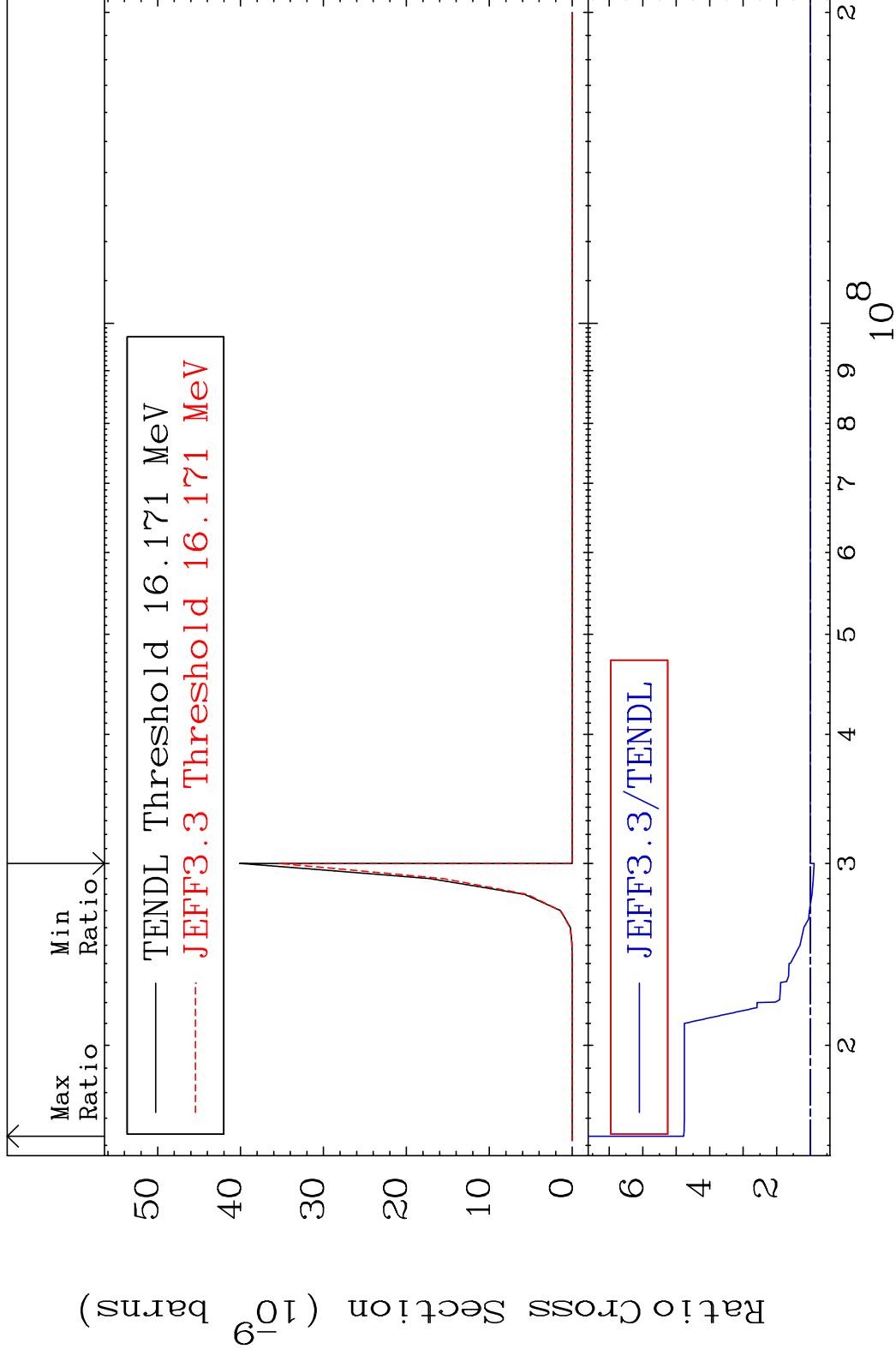


MAT 2937

(n, d)  $\alpha$

29-Cu-67

Cross Section -11.64 To 377.8 %



60

Incident Energy (eV)

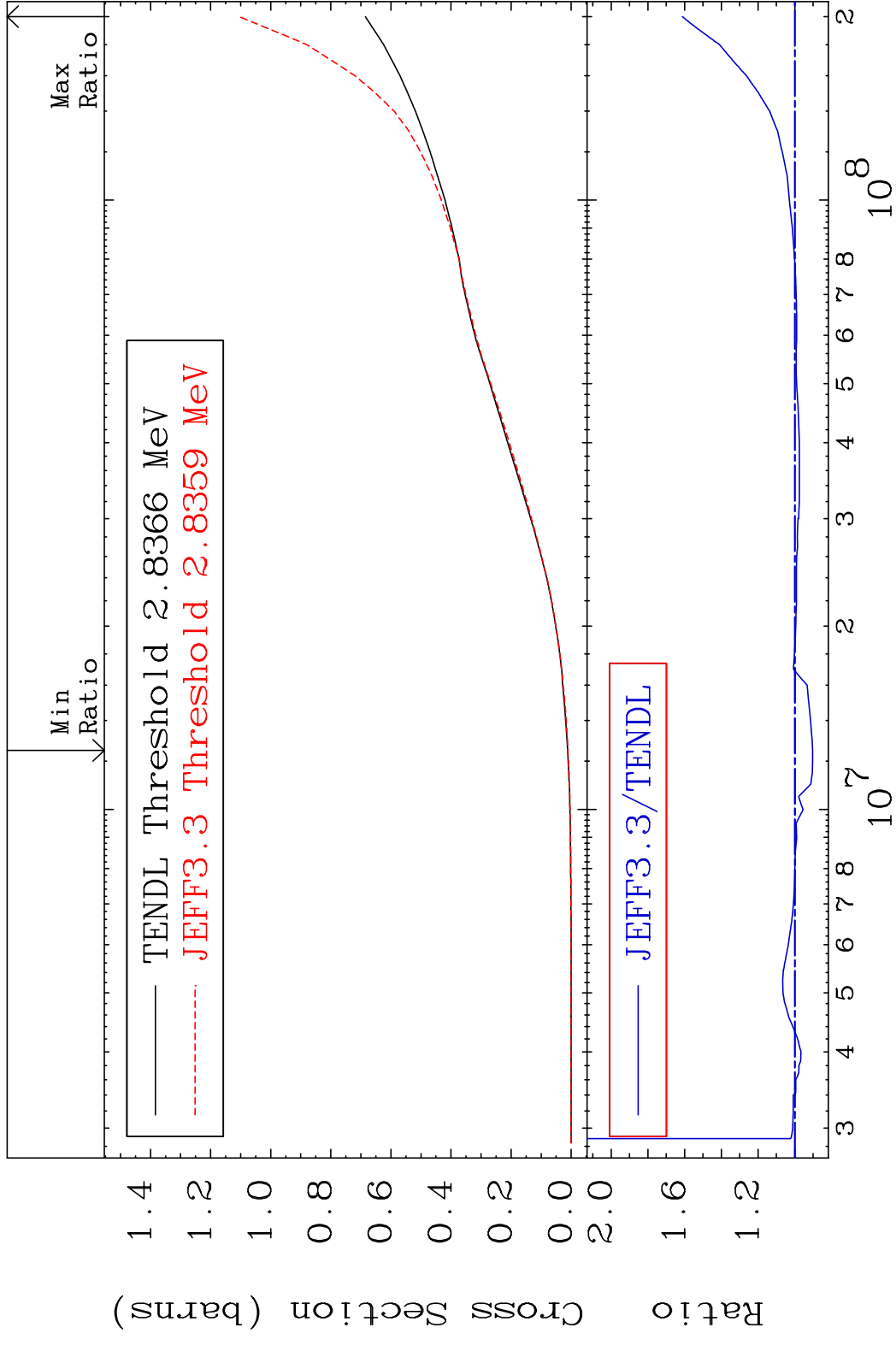
29-Cu-67

MAT 2937

Hydrogen Production

<sup>29</sup>Cu-67

Cross Section -9.667 To 61.24 %



61

Incident Energy (eV)

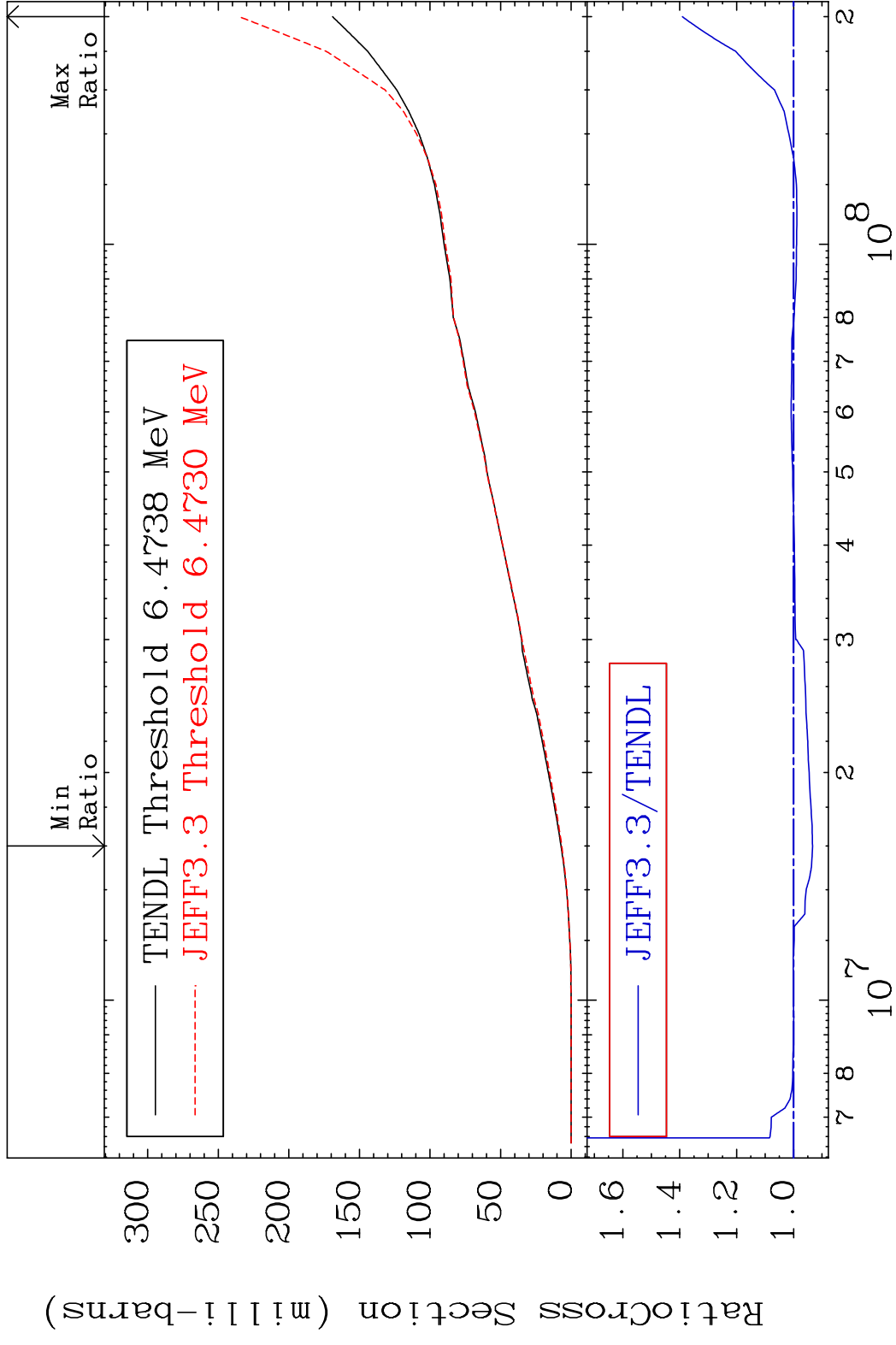
<sup>29</sup>Cu-67

MAT 2937

Deuterium Production

<sup>29</sup>Cu-67

Cross Section -6.672 To 39.08 %



62

Incident Energy (eV)

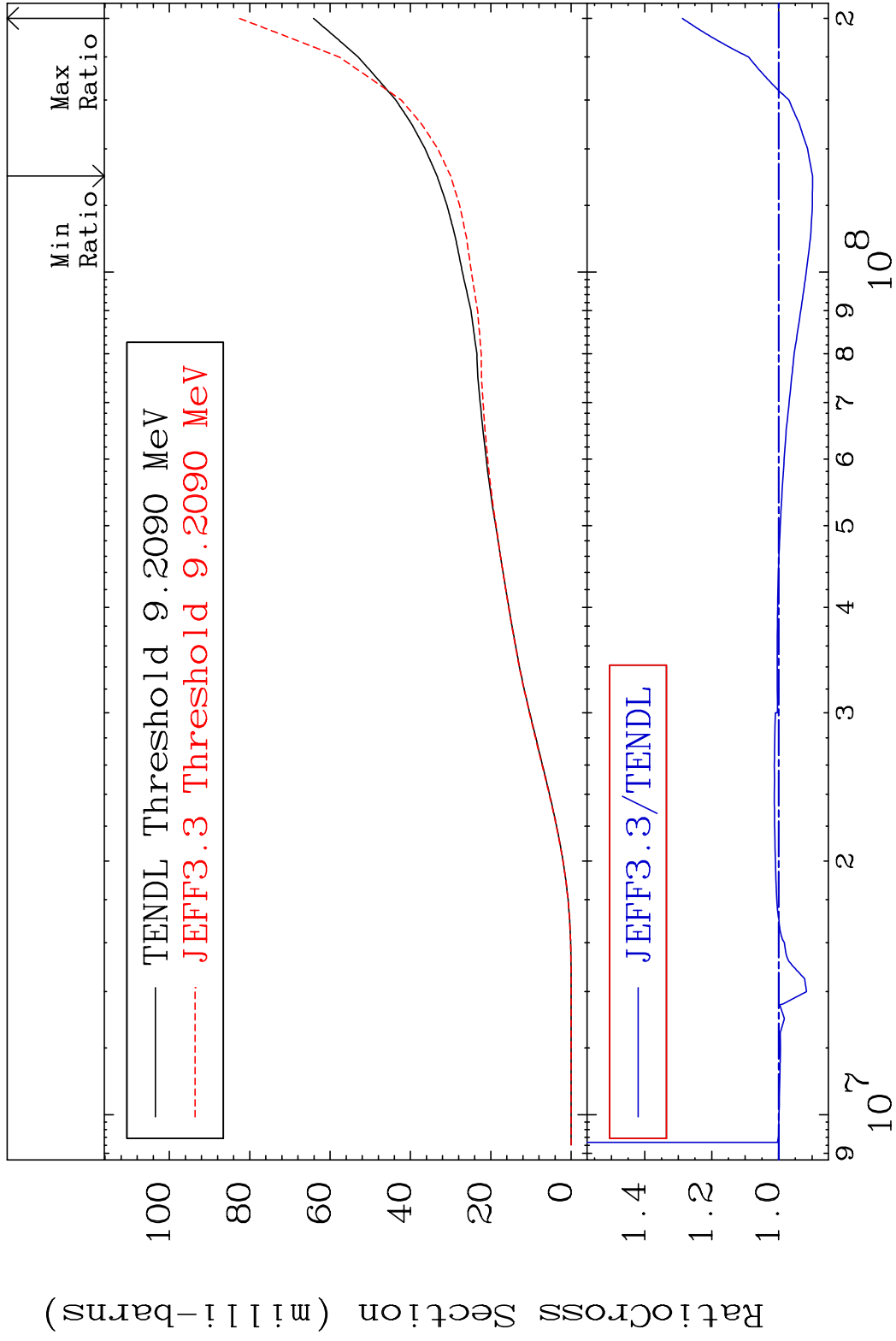
<sup>29</sup>Cu-67

MAT 2937

Tritium Production

<sup>29</sup>Cu-67

Cross Section -10.14 To 28.78 %



63

Incident Energy (eV)

<sup>29</sup>Cu-67

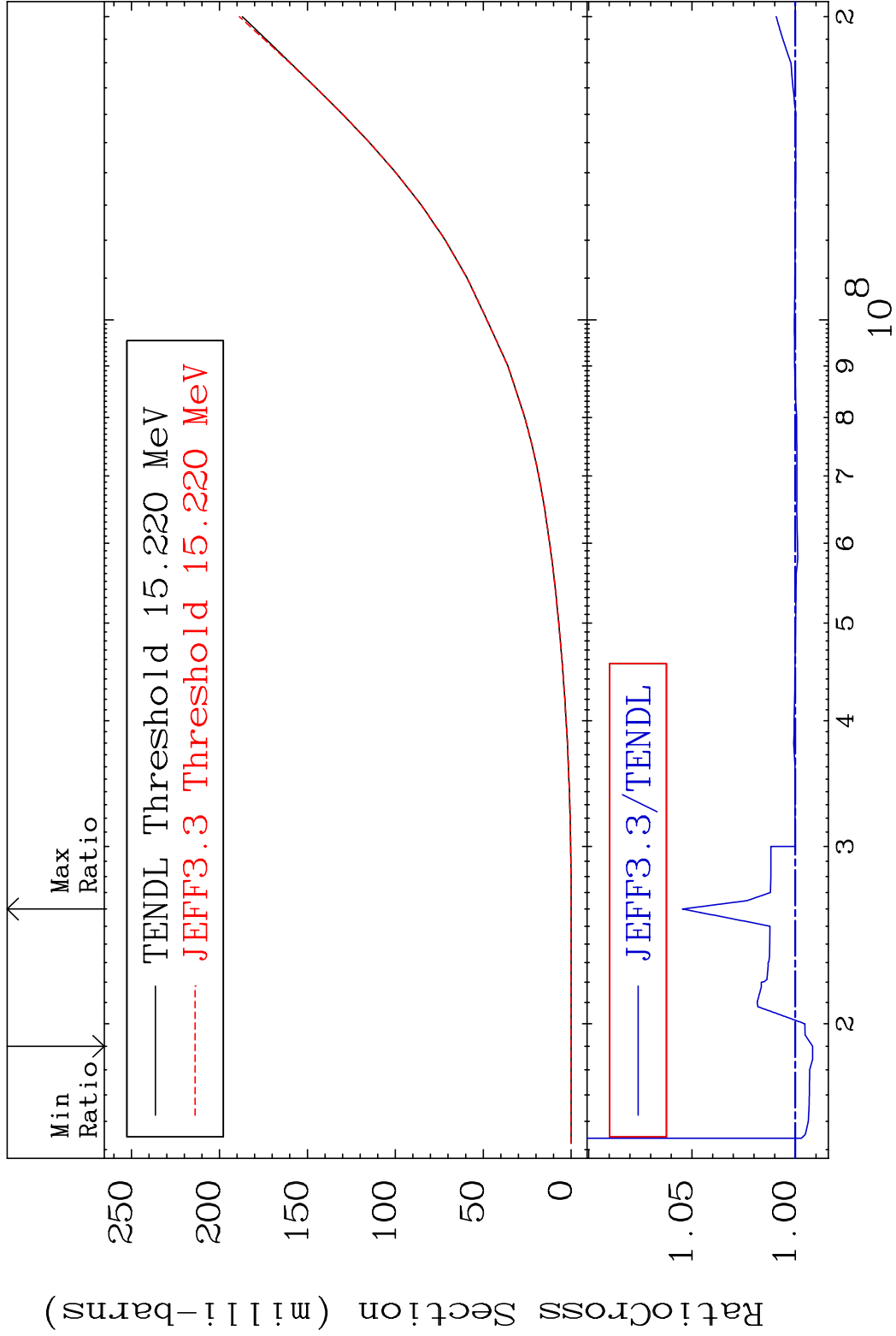


MAT 2937

He-3 Production

29-Cu-67

Cross Section -0.832 To 5.464 %



64

Incident Energy (eV)

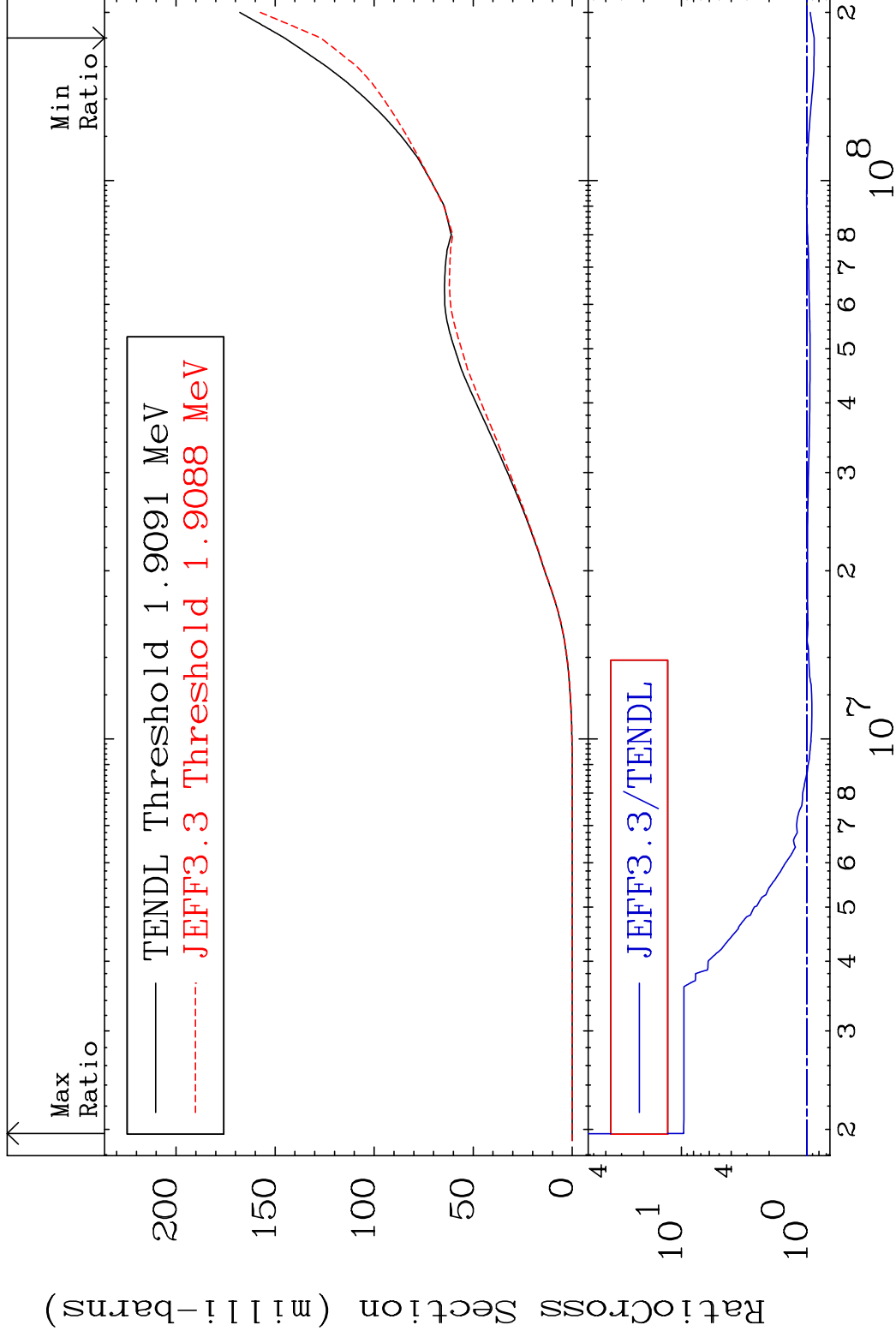
29-Cu-67

MAT 2937

He-4 Production

<sup>29</sup>Cu-67

Cross Section -12.56 To 859.2 %



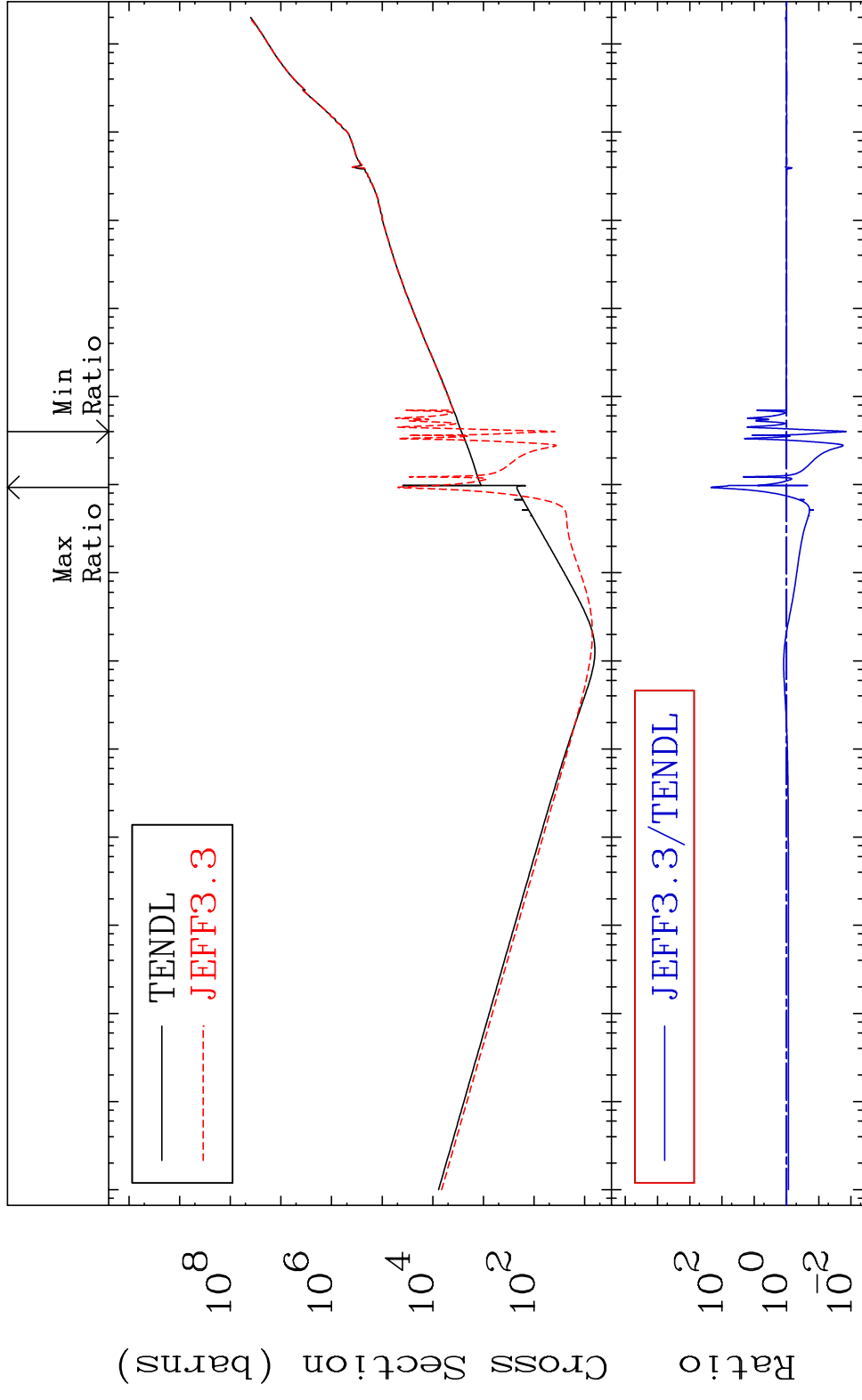
65

Incident Energy (eV)

<sup>29</sup>Cu-67

MAT 2937

Kerma total (eV-barns) 29-Cu-67  
Cross Section -98.61 To 9999. %



66

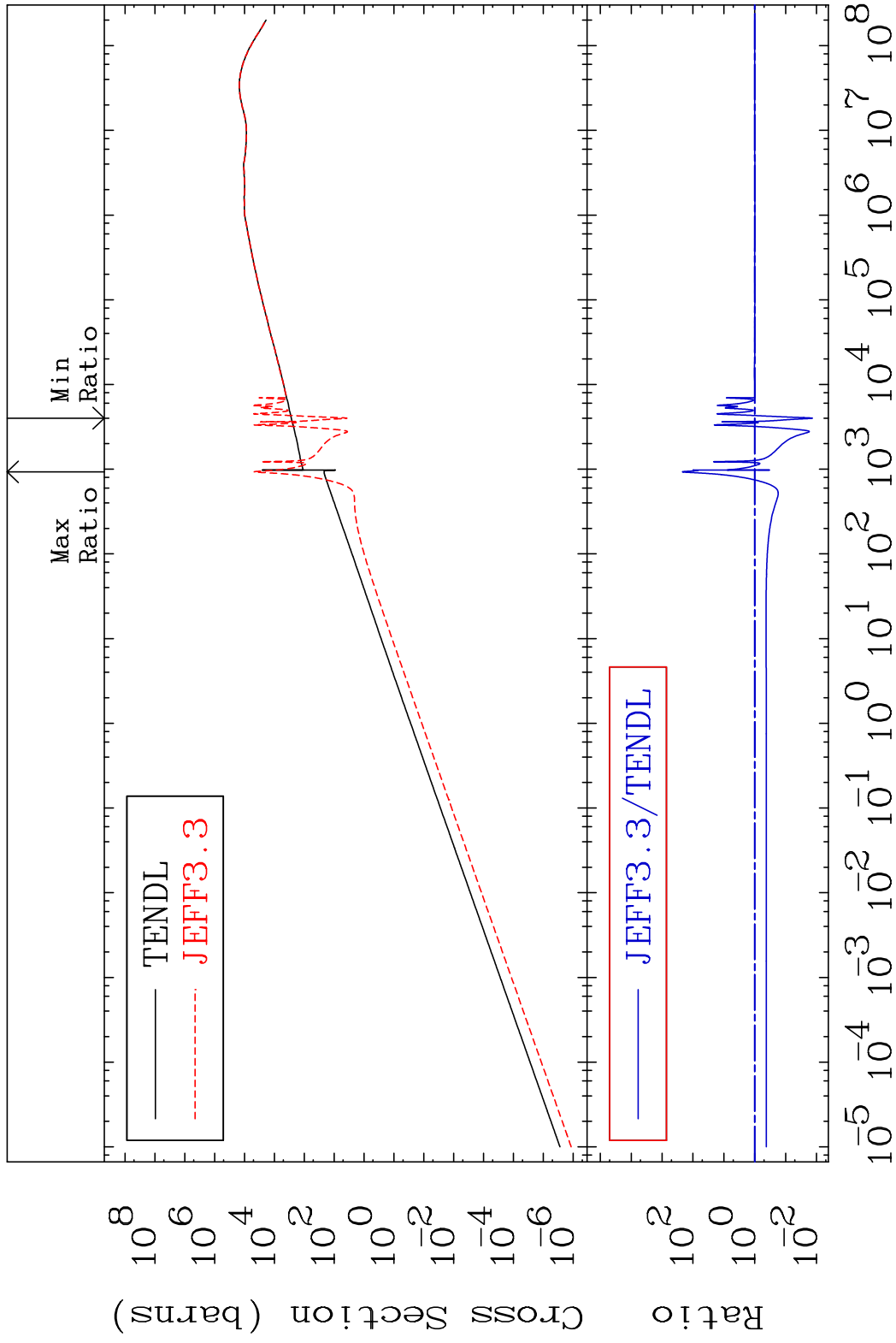
Incident Energy (eV) 29-Cu-67

MAT 2937

Kerma elastic

29-Cu-67

Cross Section -98.66 To 9999. %

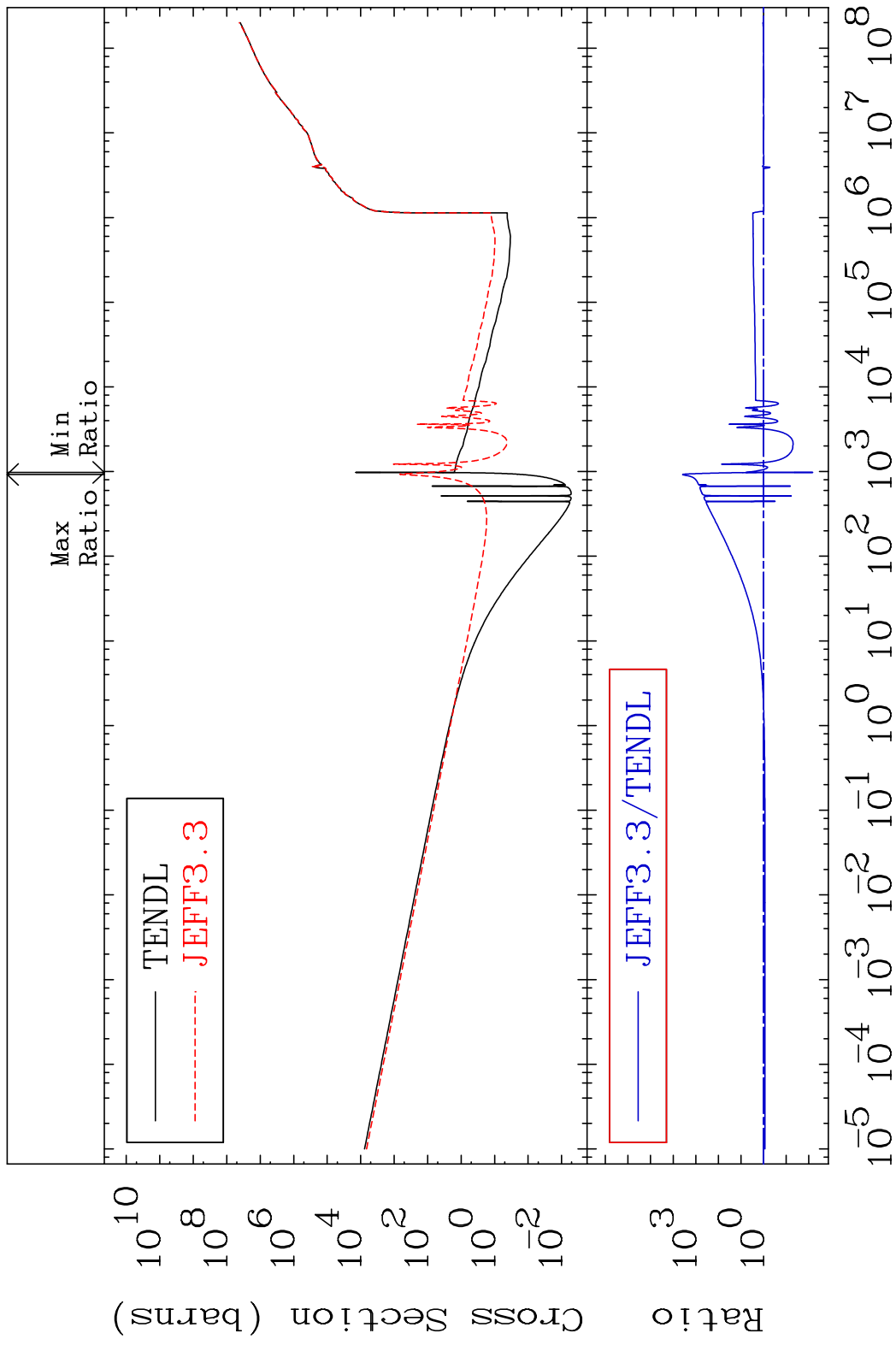


67

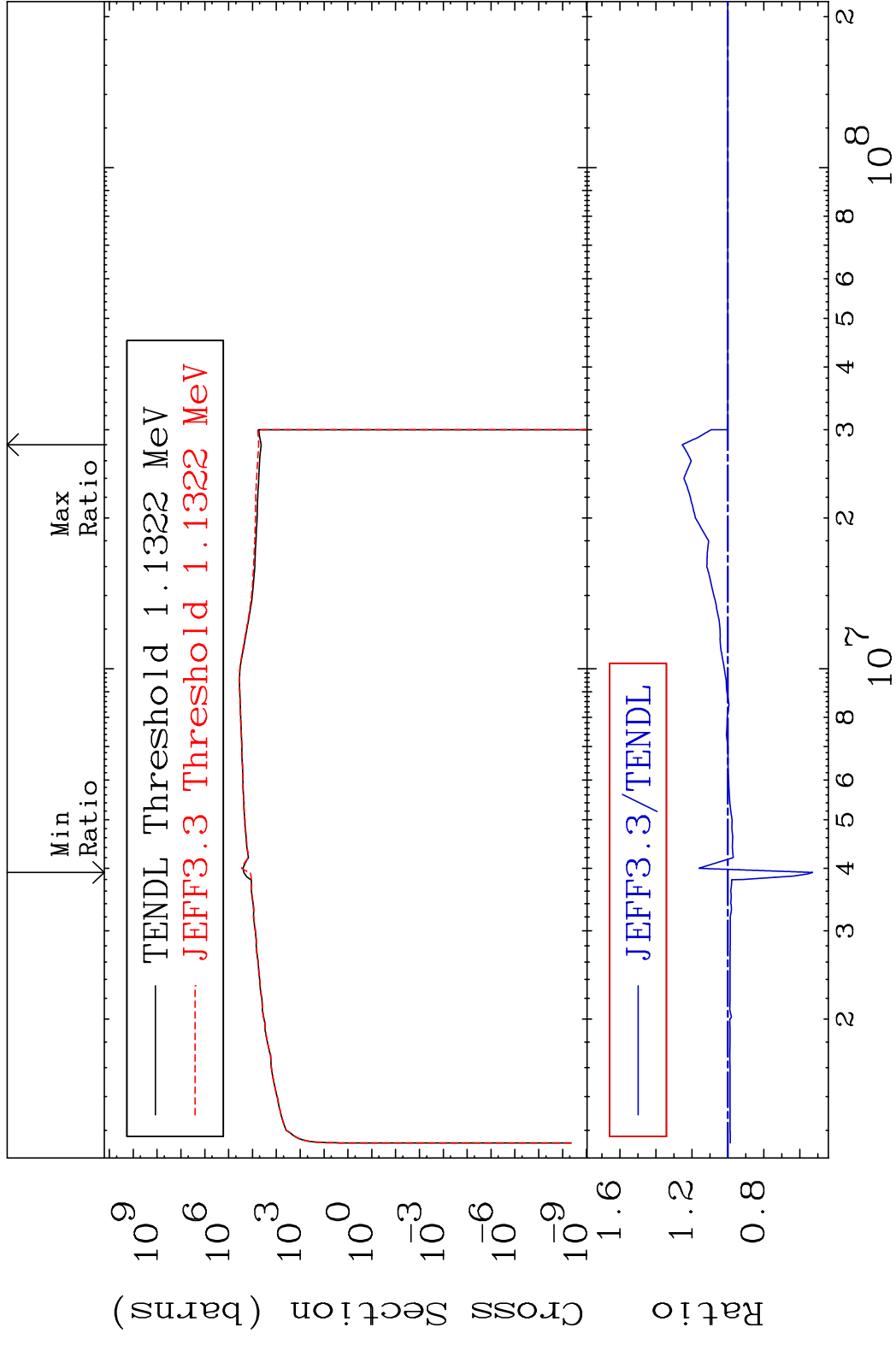
Incident Energy (eV)

29-Cu-67

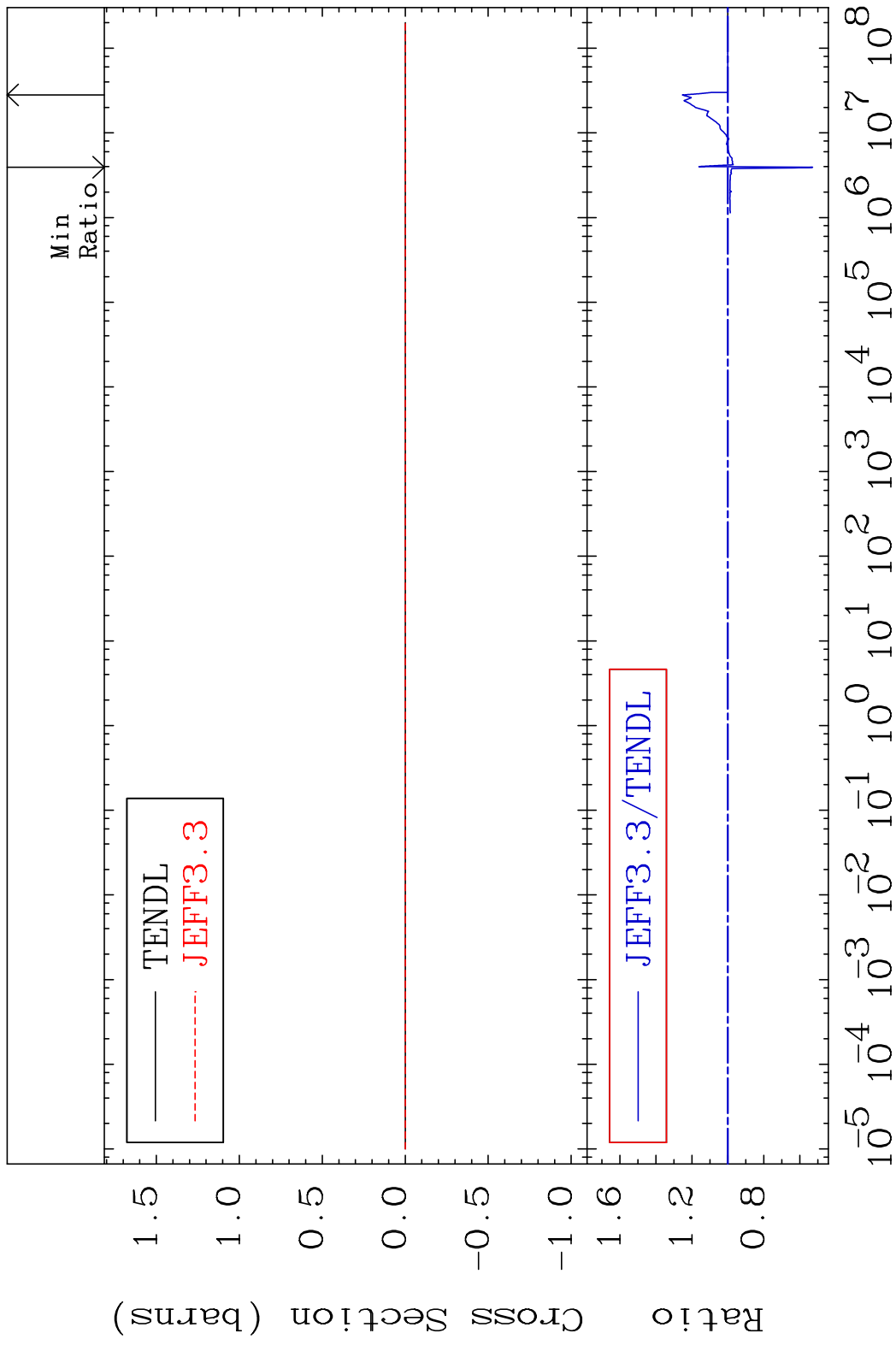
MAT 2937 Kerma non-elastic (all but mt2) 29-Cu-67  
 Cross Section -99.32 To 9999. %



MAT 2937 Kerma inelastic (mt51-91) 29-Cu-67  
 Cross Section -47.08 To 25.31 %

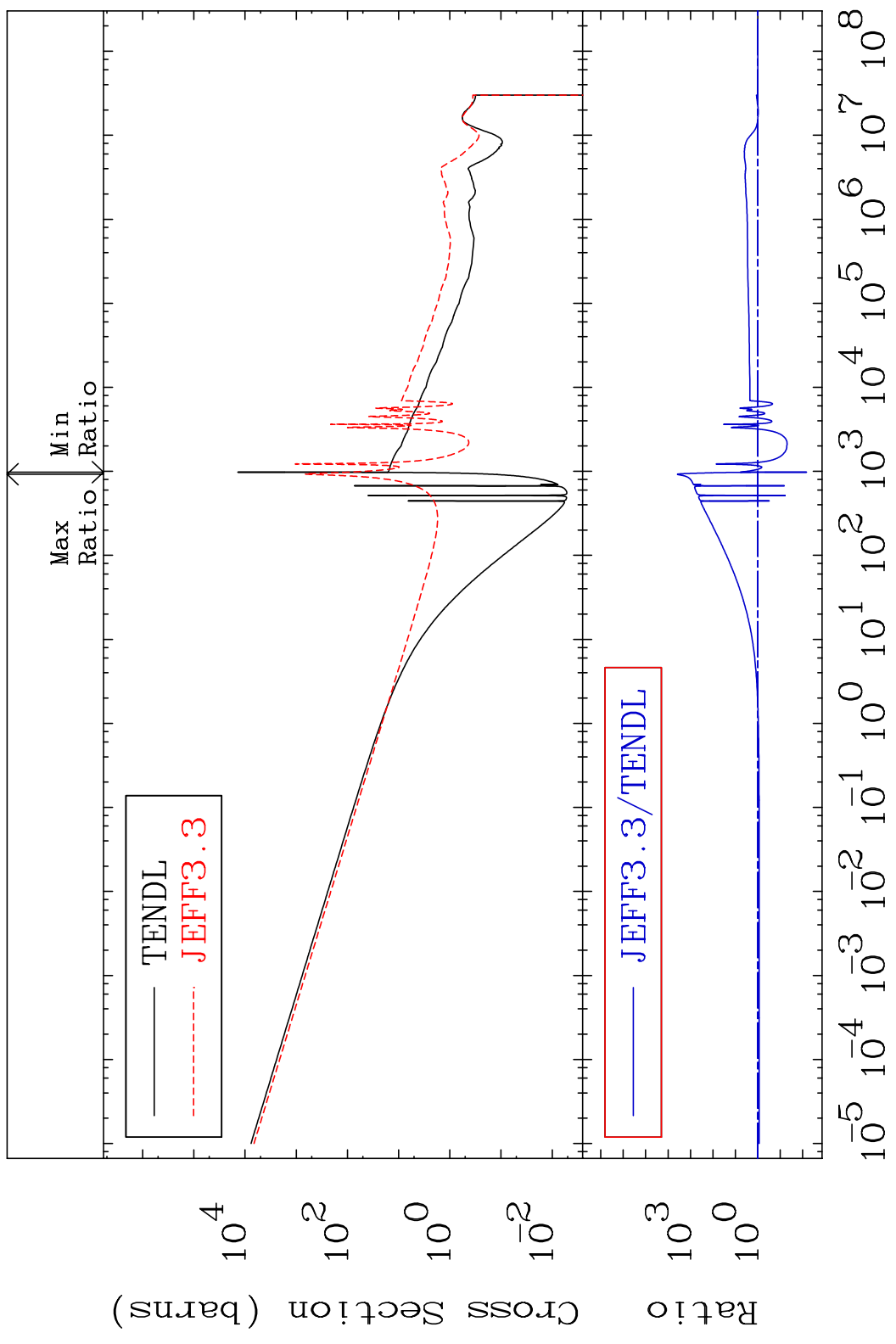


MAT 2937 Kerma fission (mt18 or mt19-20-21-38) 29-Cu-67  
 Cross Section -47.08 To 25.31 %



MAT 2937

Kerma capture (mt102) 29-Cu-67  
Cross Section -99.32 To 9999. %



71

Incident Energy (eV) 29-Cu-67

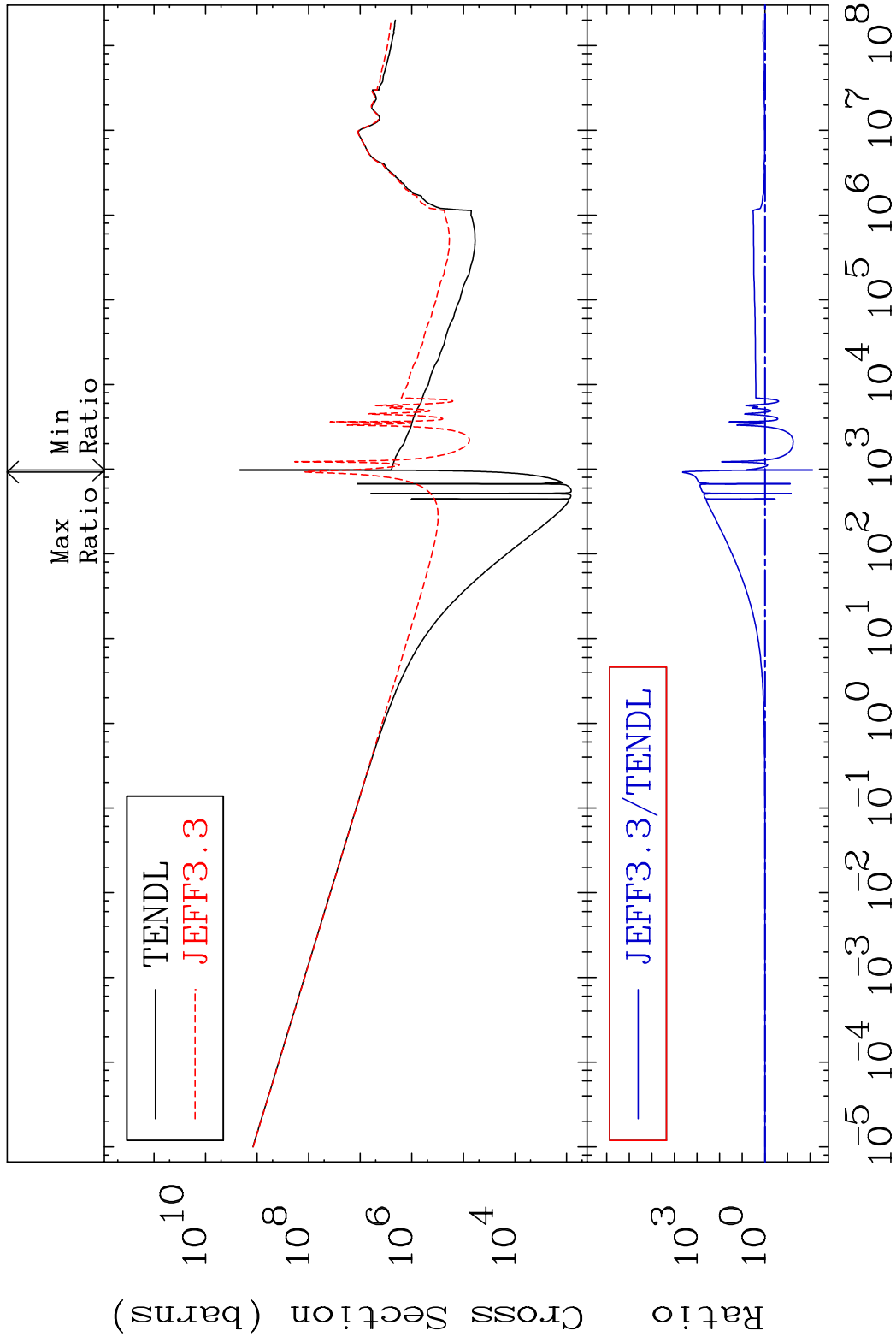


MAT 2937

Total photon (eV-barns)

29-Cu-67

Cross Section -99.22 To 9999. %

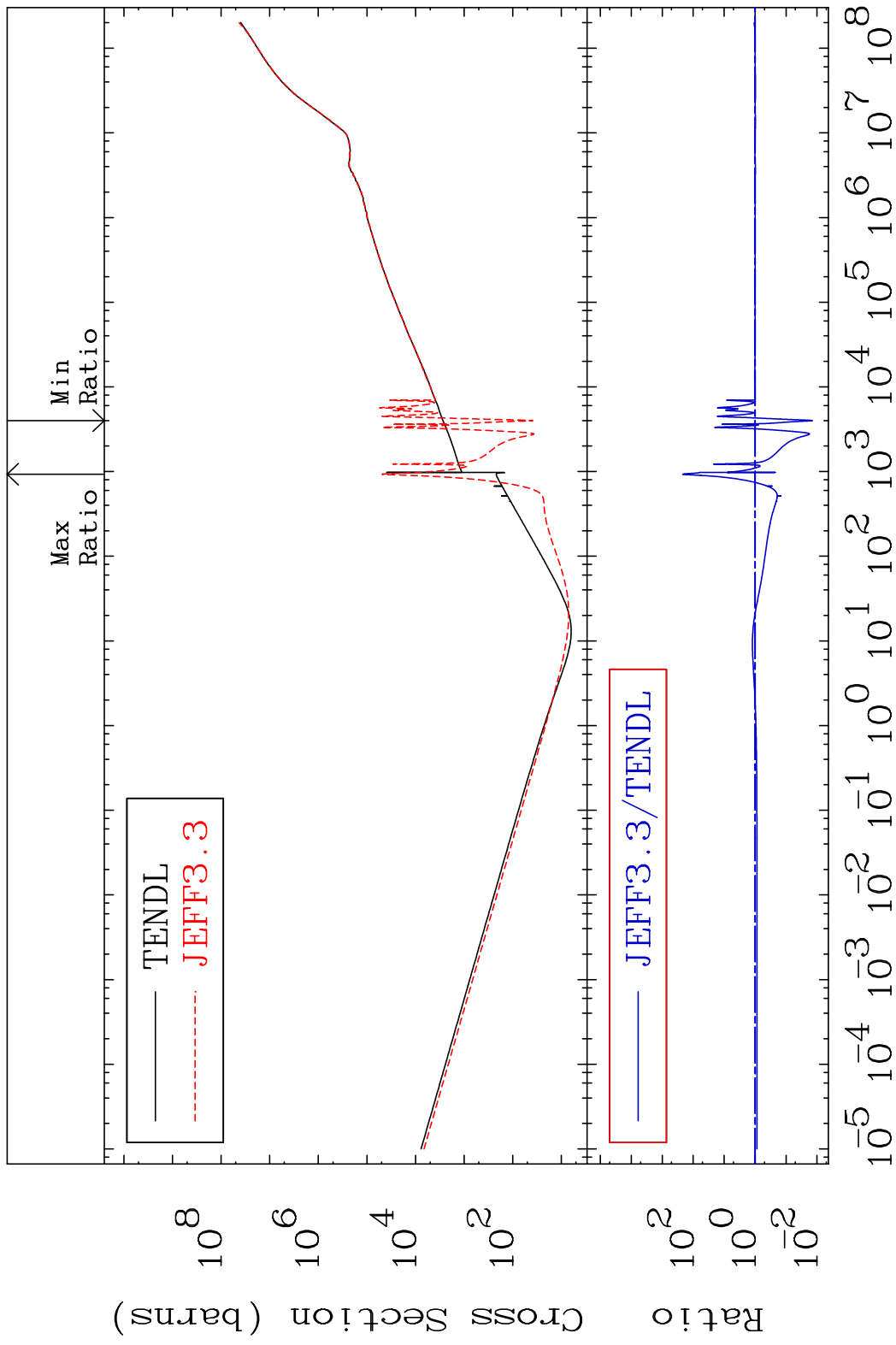


72

Incident Energy (eV)

29-Cu-67

MAT 2937 Total kinematic kerma (high limit) 29-Cu-67  
 Cross Section -98.61 To 9999. %

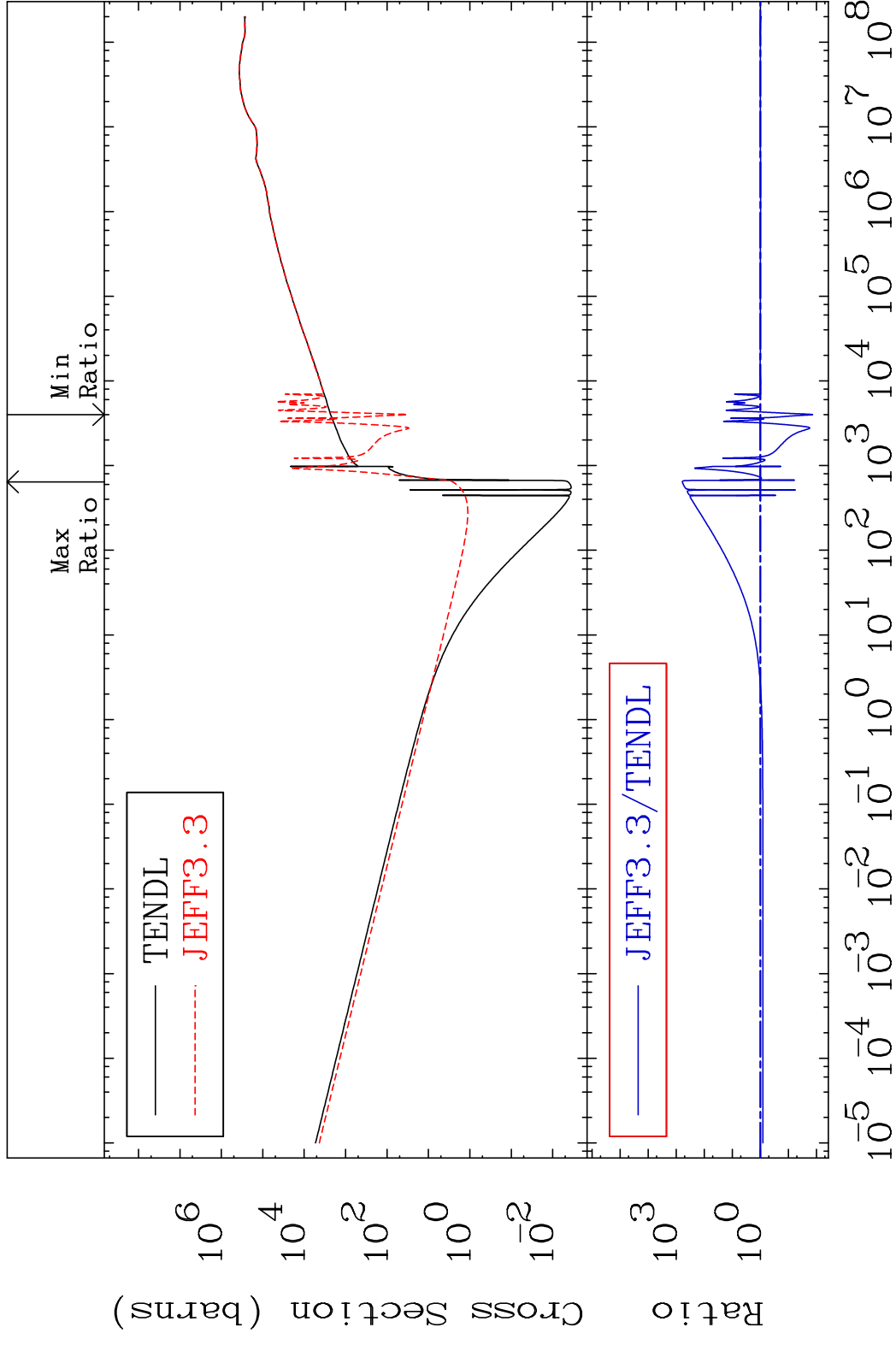


MAT 2937

Dpa total (eV-barns)

29-Cu-67

Cross Section -98.62 To 9999. %

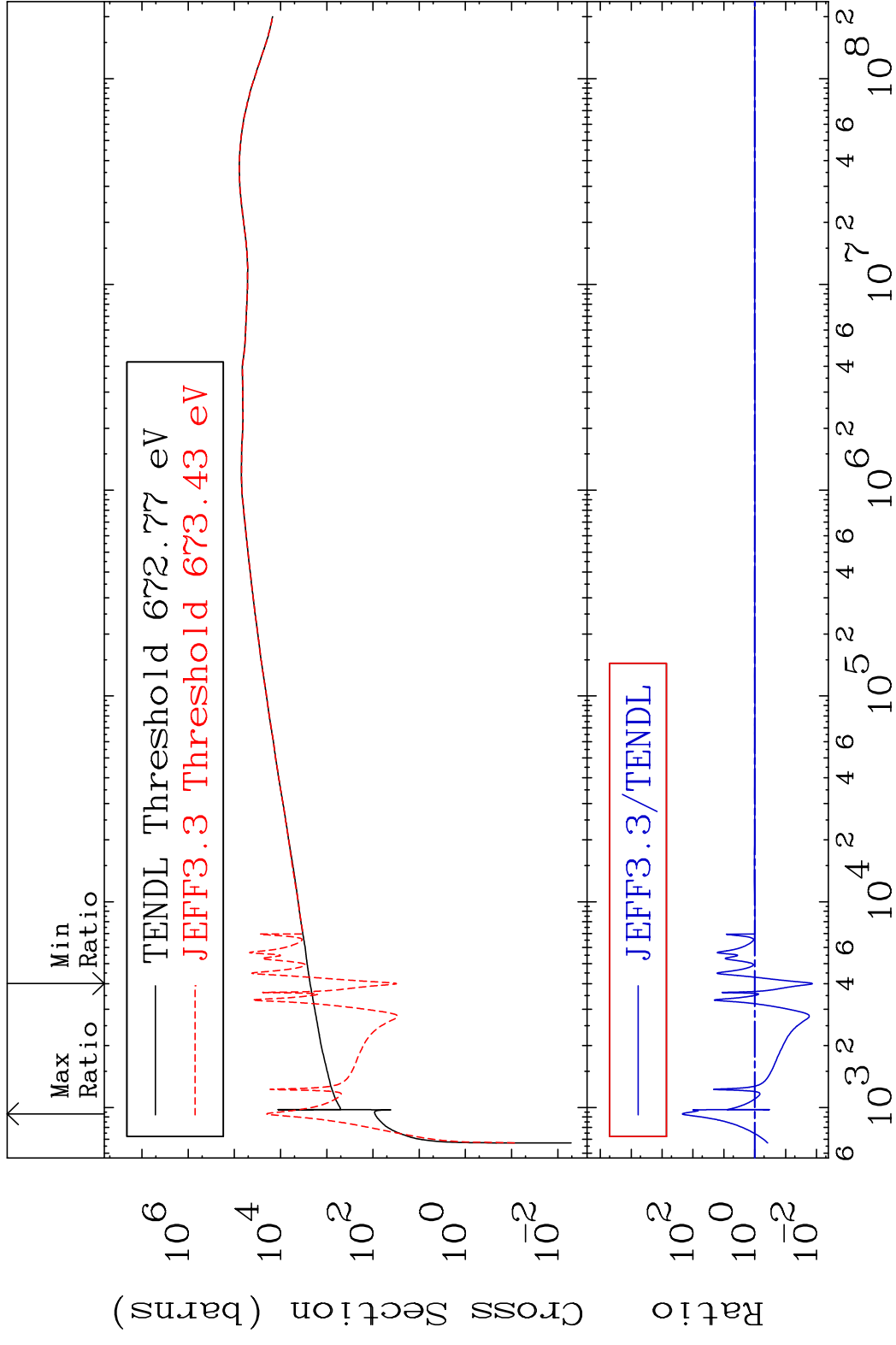


MAT 2937

Dpa elastic (mt2)

29-Cu-67

Cross Section -98.66 To 9999. %



75

Incident Energy (eV)

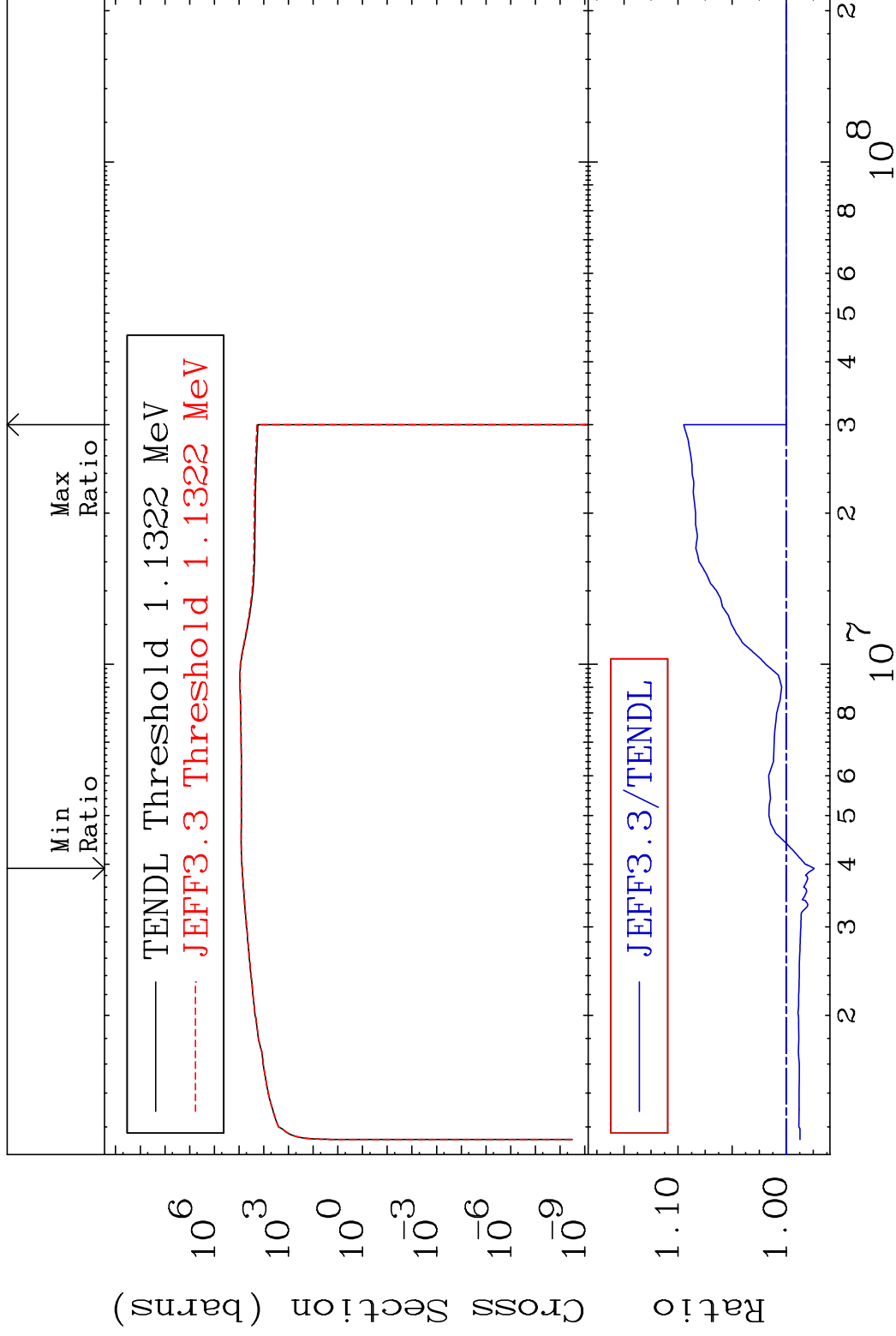
29-Cu-67

MAT 2937

Dpa inelastic (mt51-91)

29-Cu-67

Cross Section -2.573 To 9.483 %

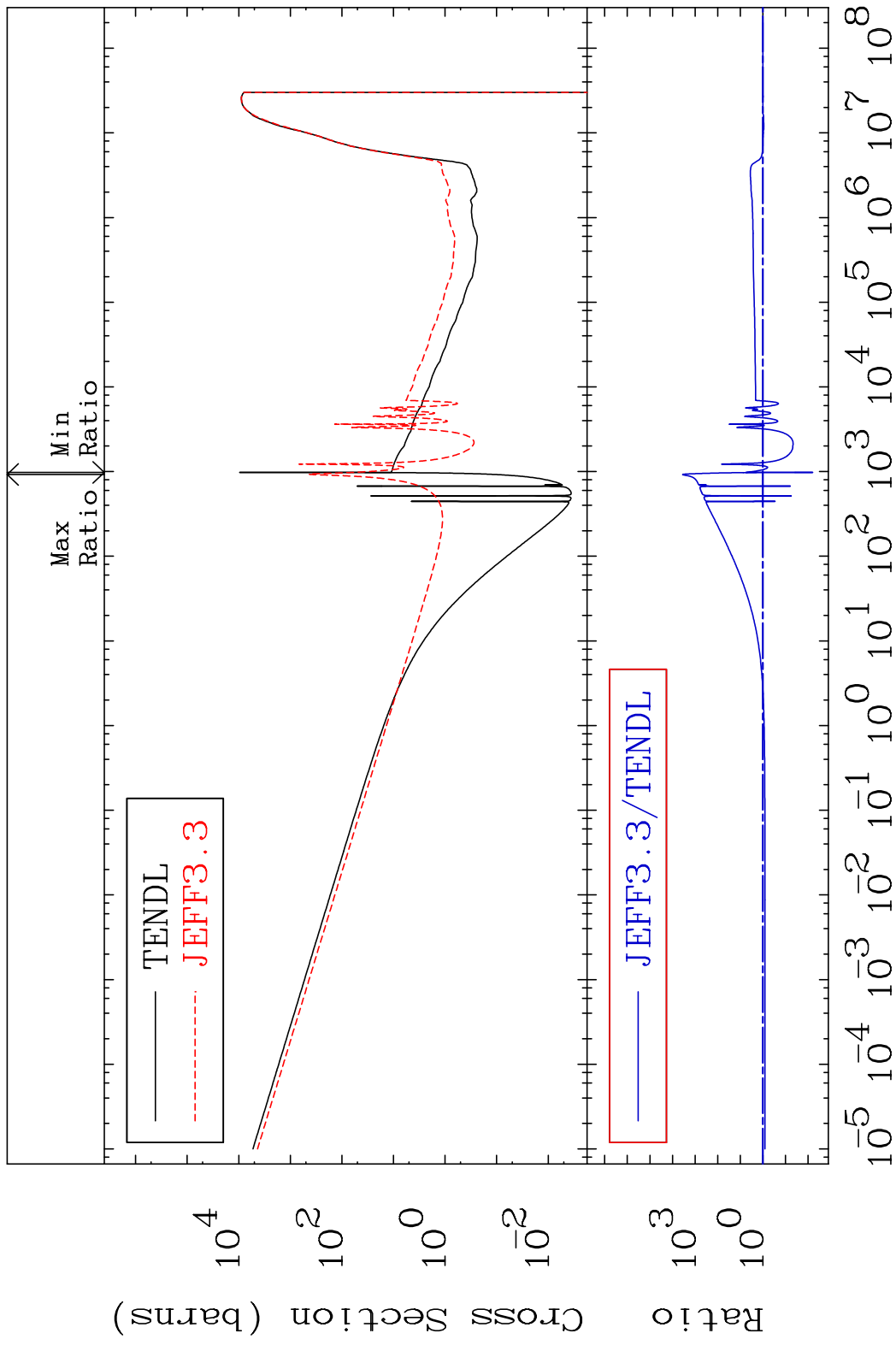


76

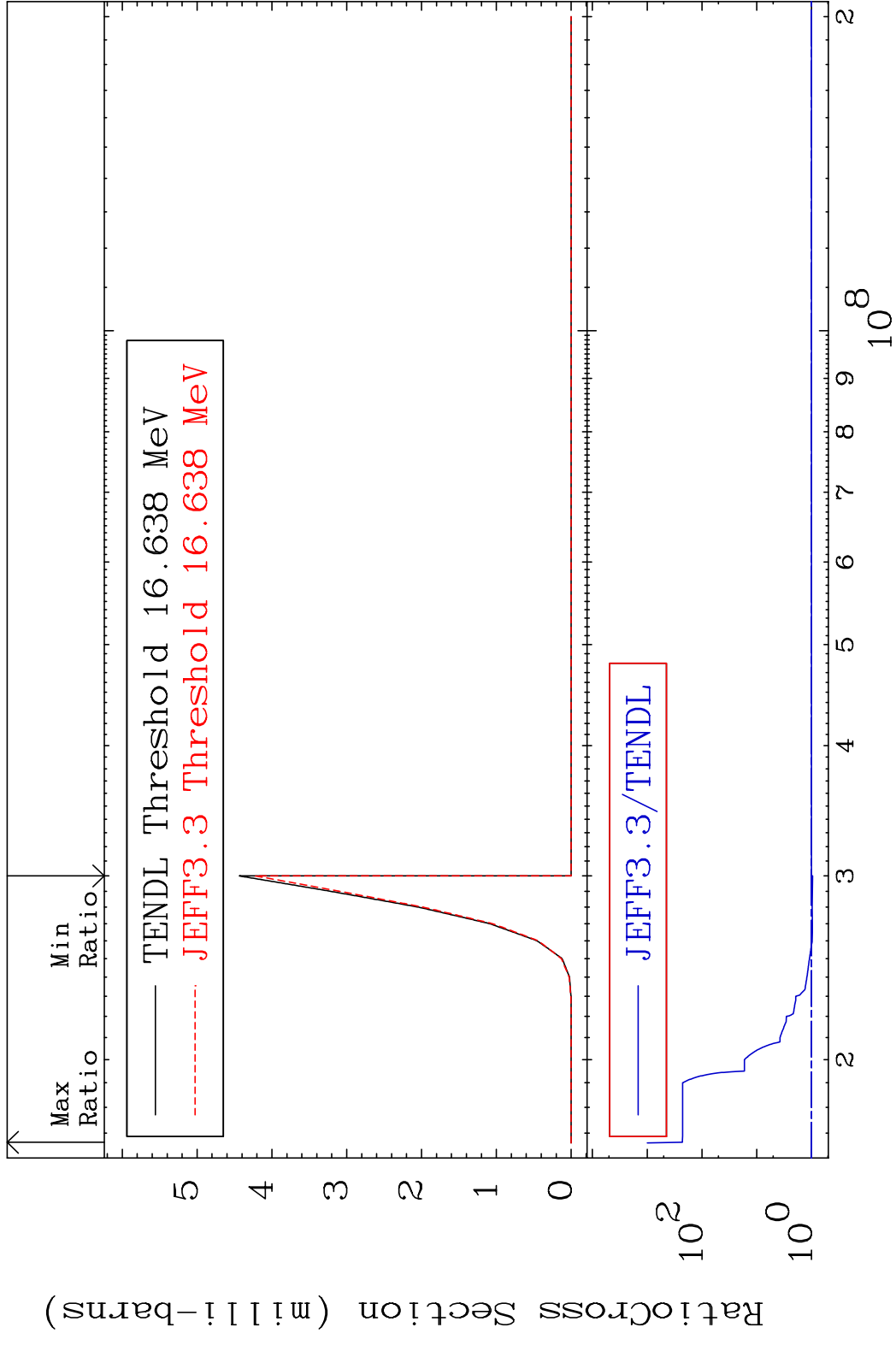
Incident Energy (eV)

29-Cu-67

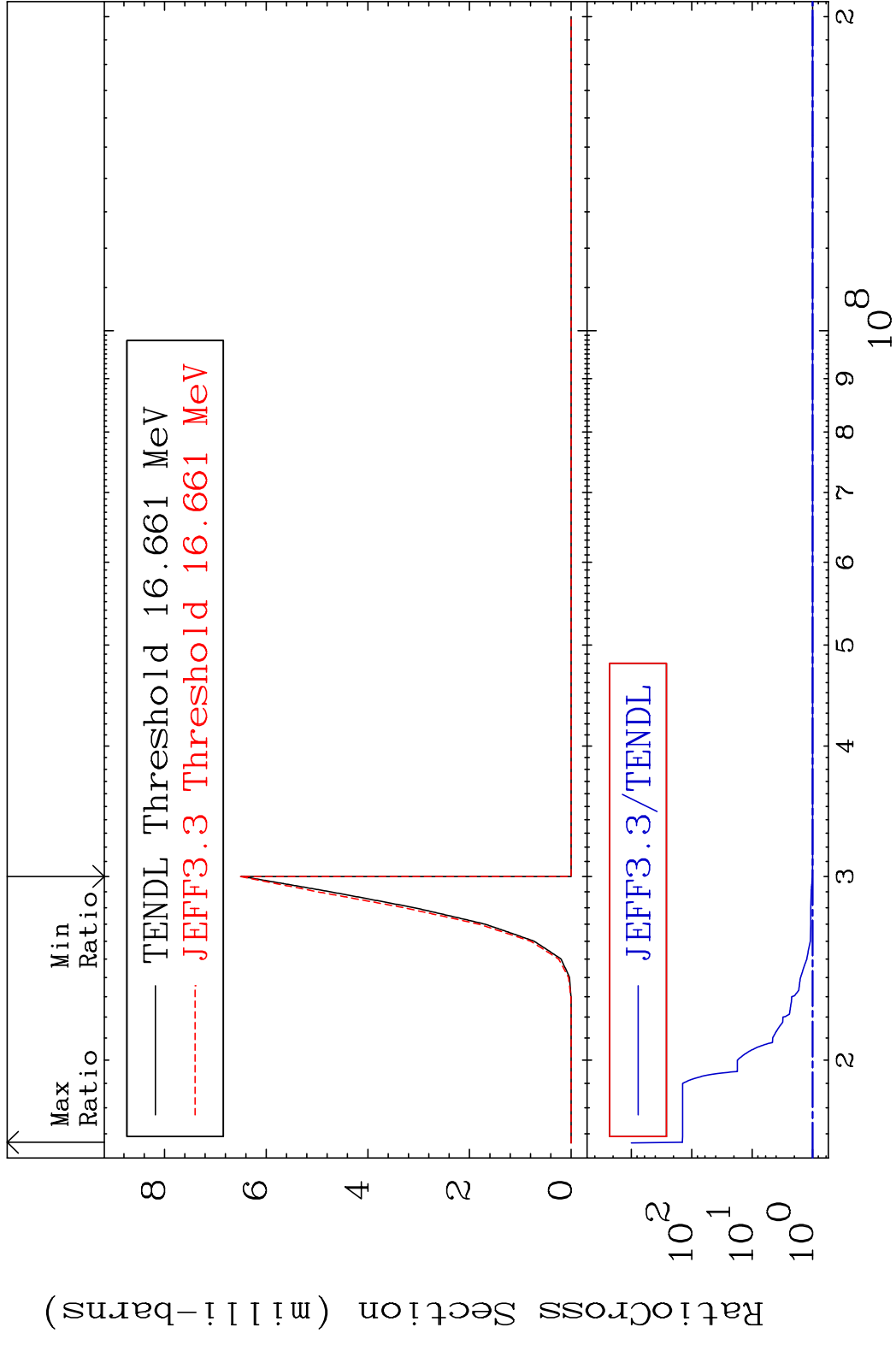
MAT 2937 Dpa disappearance (mt102 -120) 29-Cu-67  
 Cross Section -99.36 To 9999. %



MAT 2937 (n,2n)  $\alpha$ :27-Co-62g 29-Cu-67  
 Radionuclide Production Cross Section 45682 dno 9999. %



MAT 2937 (n,2n)  $\alpha$ :27-Co-62m1 29-Cu-67  
 Radionuclide Production Cross Section, %





MAT 2937 (n,2α):25-Mn-60g 29-Cu-67  
 Radionuclide Production Cross Section 390.4 %

